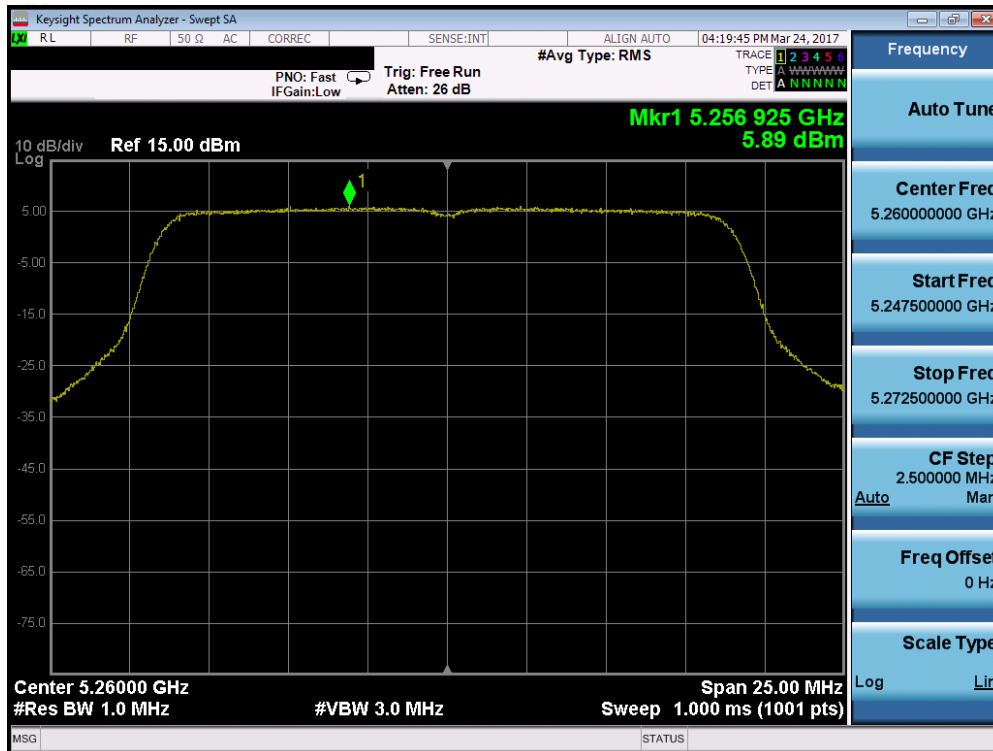


Antenna-2 Power Spectral Density Measurements

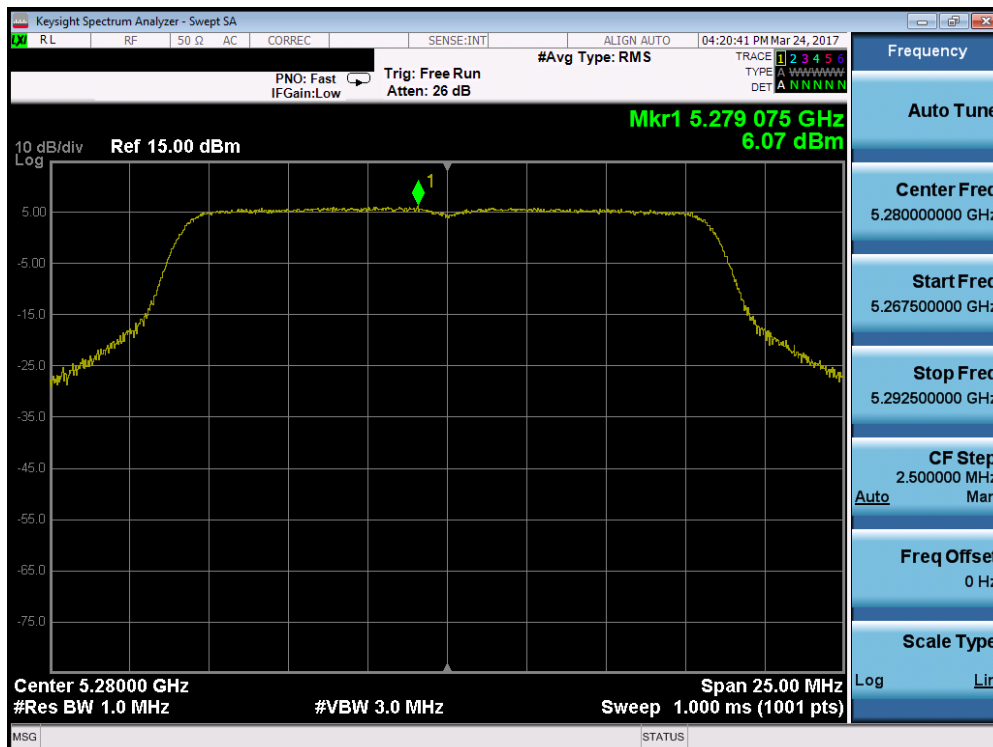
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]	Pass / Fail
Band 2A	5260	52	a	6	5.89	11.0	-5.11	Pass
	5280	56	a	6	6.07	11.0	-4.93	Pass
	5320	64	a	6	8.23	11.0	-2.77	Pass
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	5.90	11.0	-5.10	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	5.96	11.0	-5.04	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.11	11.0	-4.89	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.84	11.0	-8.16	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	3.16	11.0	-7.84	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-0.72	11.0	-11.72	Pass
Band 2C	5500	100	a	6	6.65	11.0	-4.35	Pass
	5600	120	a	6	6.21	11.0	-4.79	Pass
	5720	144	a	6	6.57	11.0	-4.43	Pass
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.25	11.0	-4.75	Pass
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	6.09	11.0	-4.91	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.22	11.0	-4.78	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	3.20	11.0	-7.80	Pass
	5590	118	n (40MHz)	13.5/15 (MCS0)	3.26	11.0	-7.74	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	3.35	11.0	-7.65	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-0.77	11.0	-11.77	Pass
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-0.99	11.0	-11.99	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-3.27	11.0	-14.27	Pass

Table 7-24. Bands 2A & 2C Conducted Power Spectral Density Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 84 of 227	

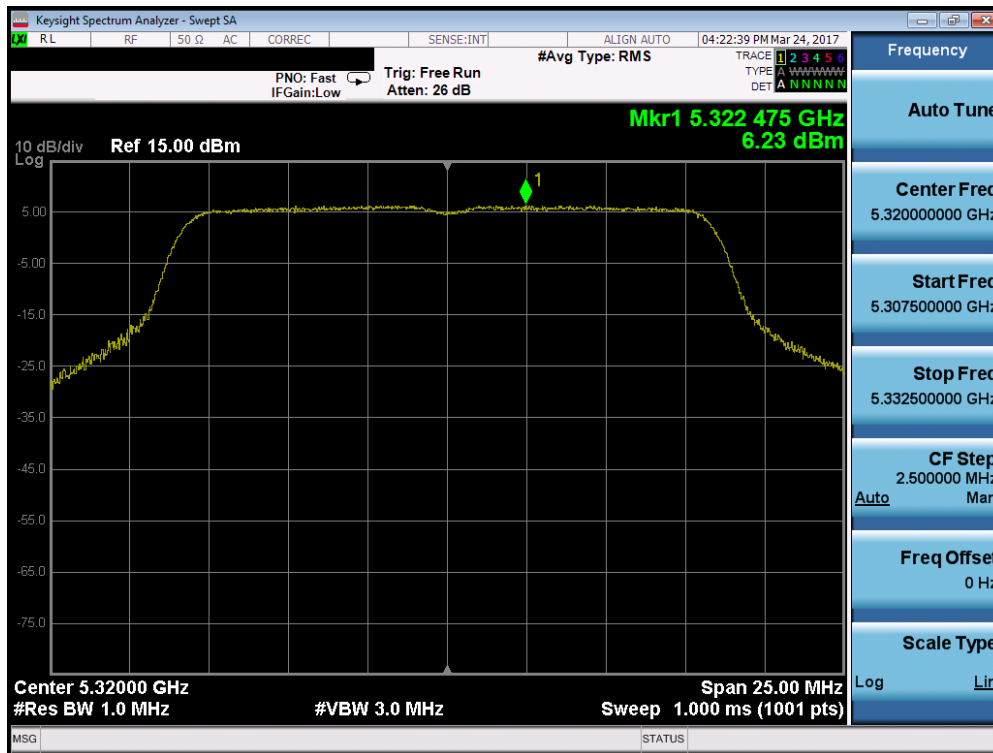


Plot 7-106. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

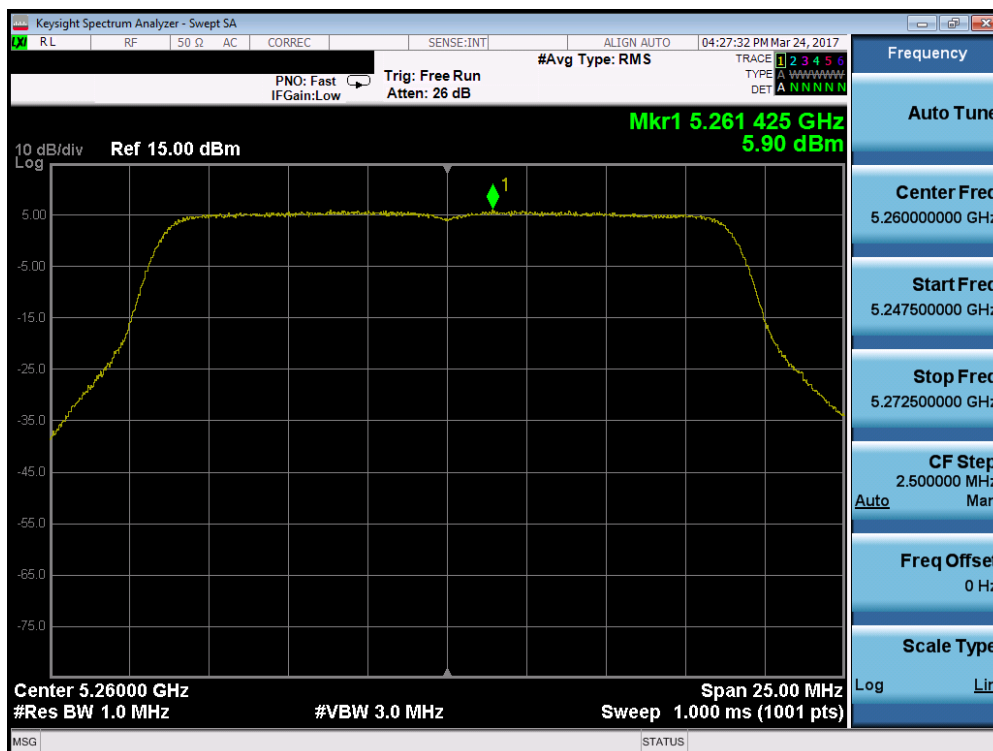


Plot 7-107. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 85 of 227

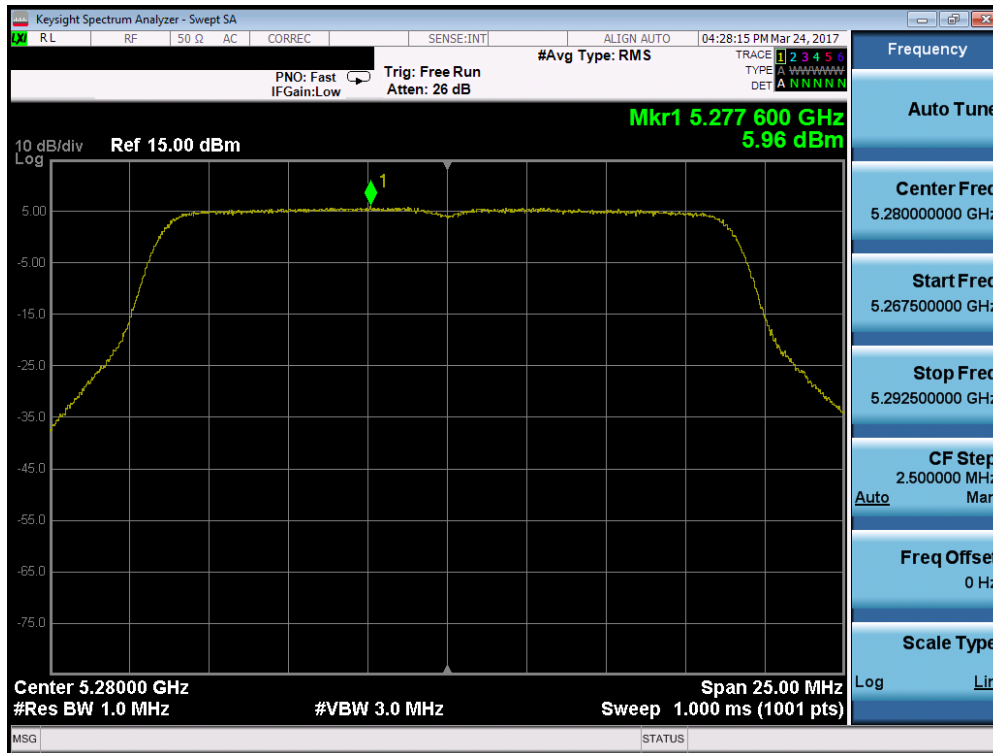


Plot 7-108. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

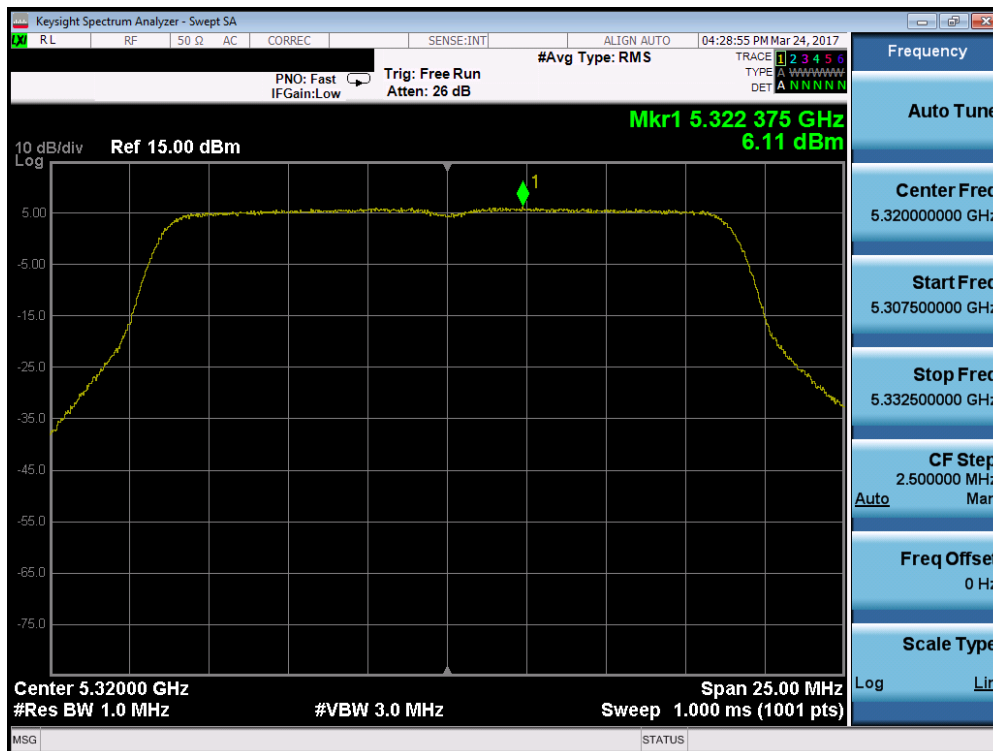


Plot 7-109. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 86 of 227

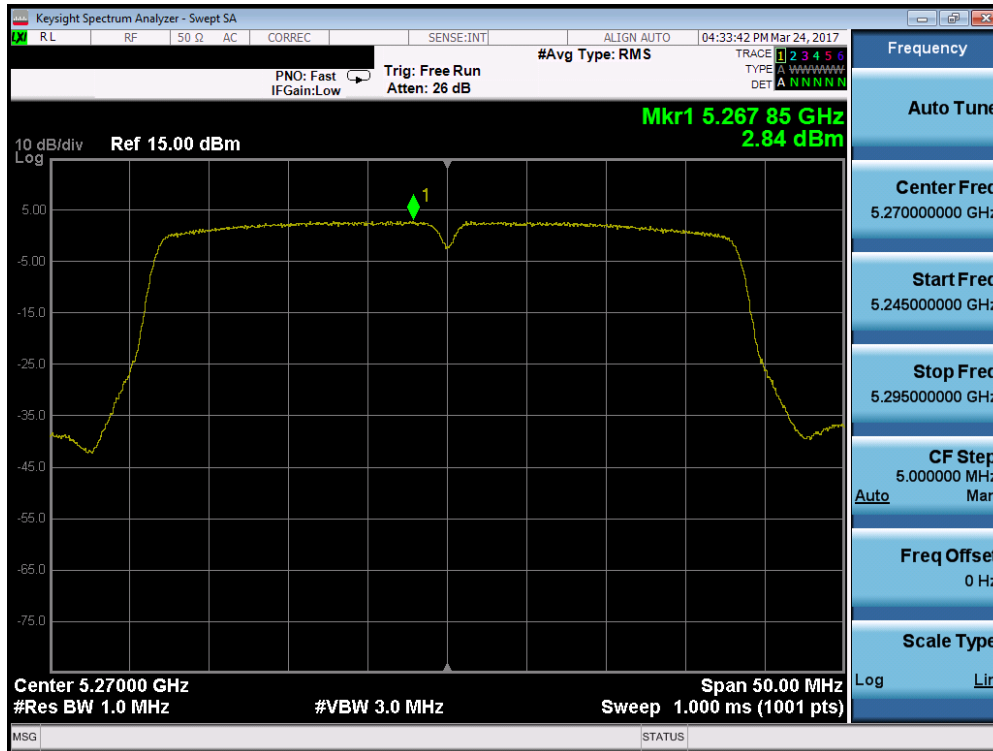


Plot 7-110. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

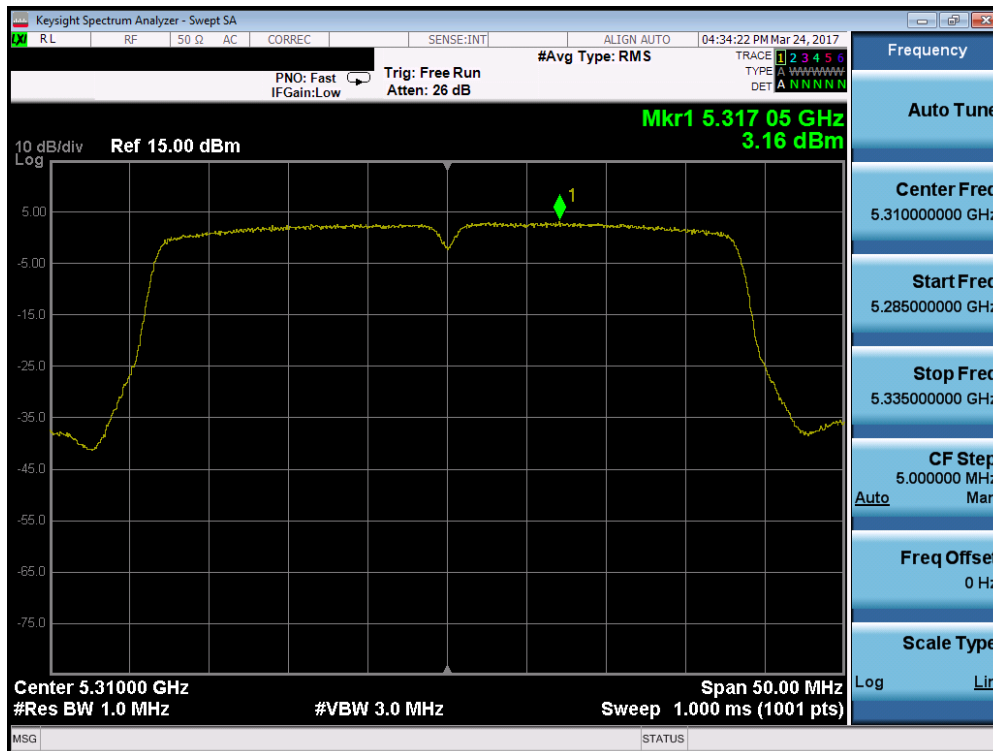


Plot 7-111. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 87 of 227

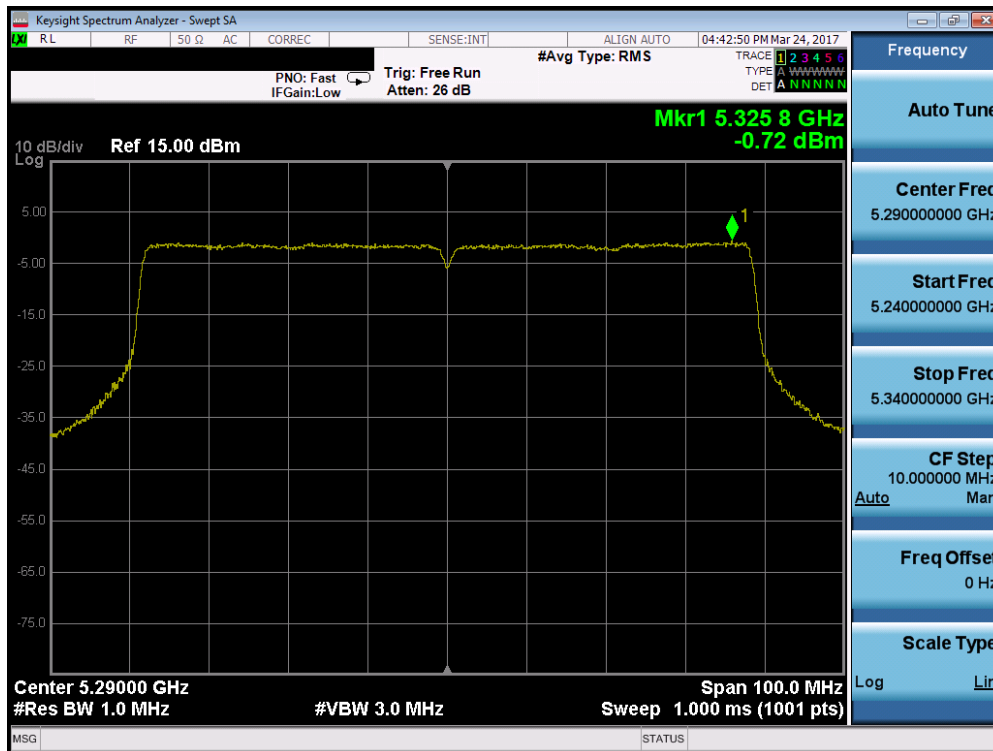


Plot 7-112. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

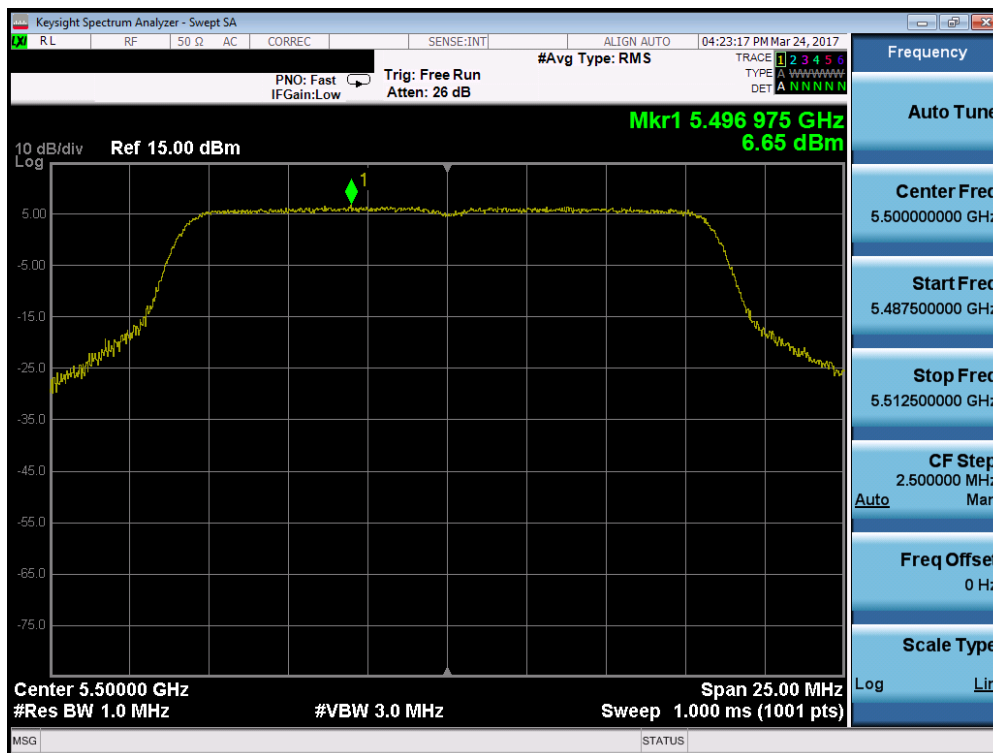


Plot 7-113. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 88 of 227

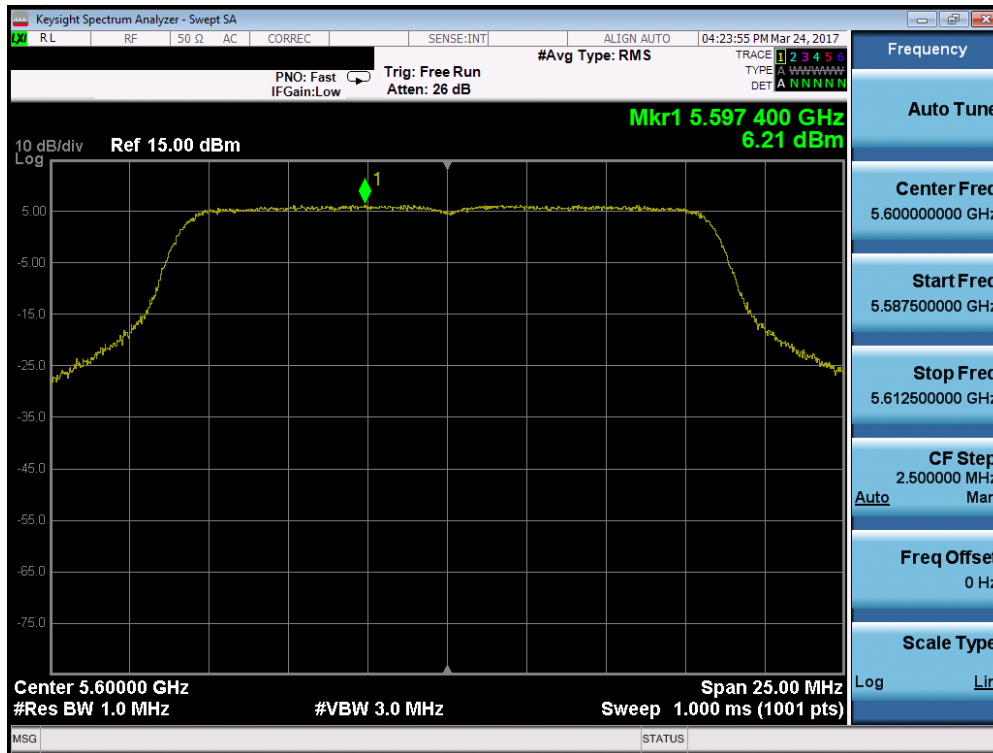


Plot 7-114. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

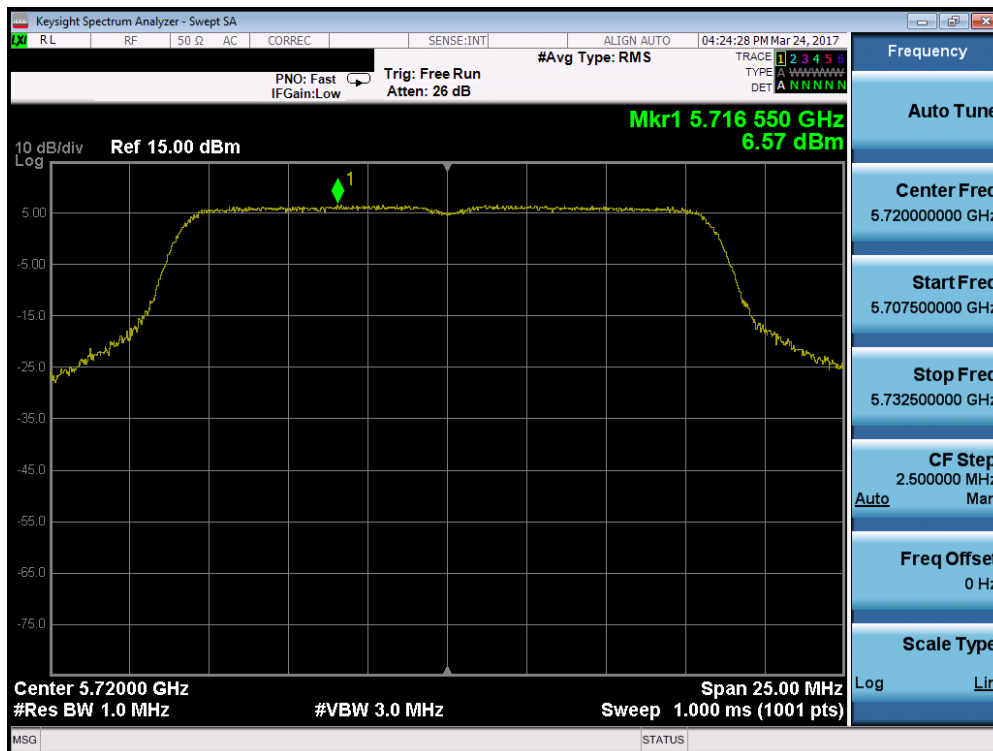


Plot 7-115. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 89 of 227

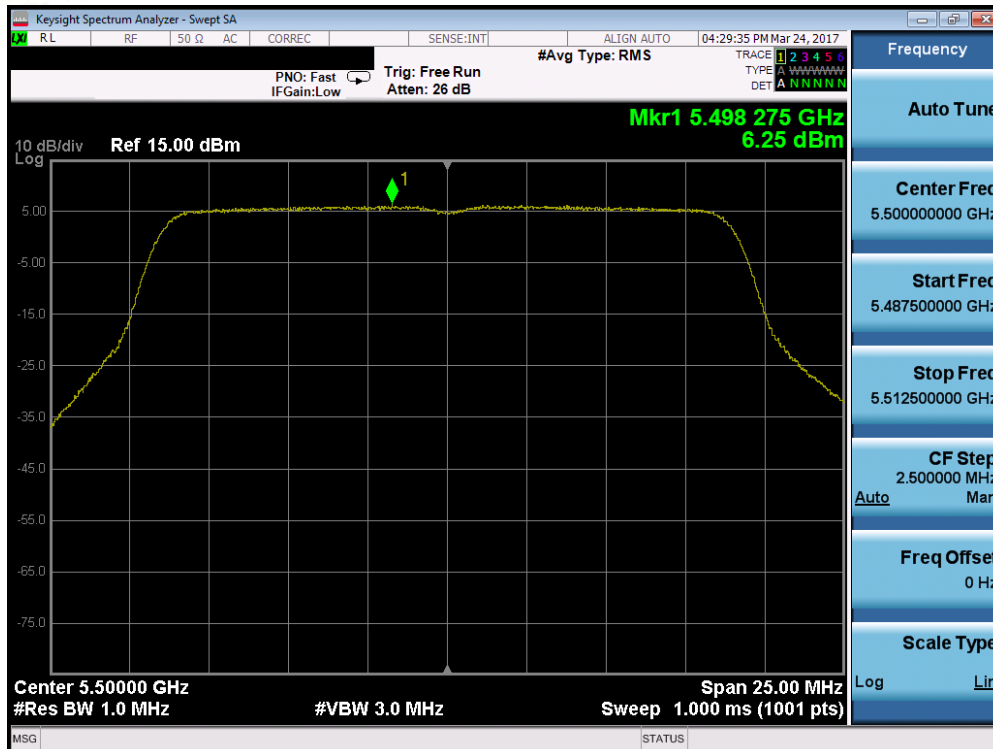


Plot 7-116. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 120)

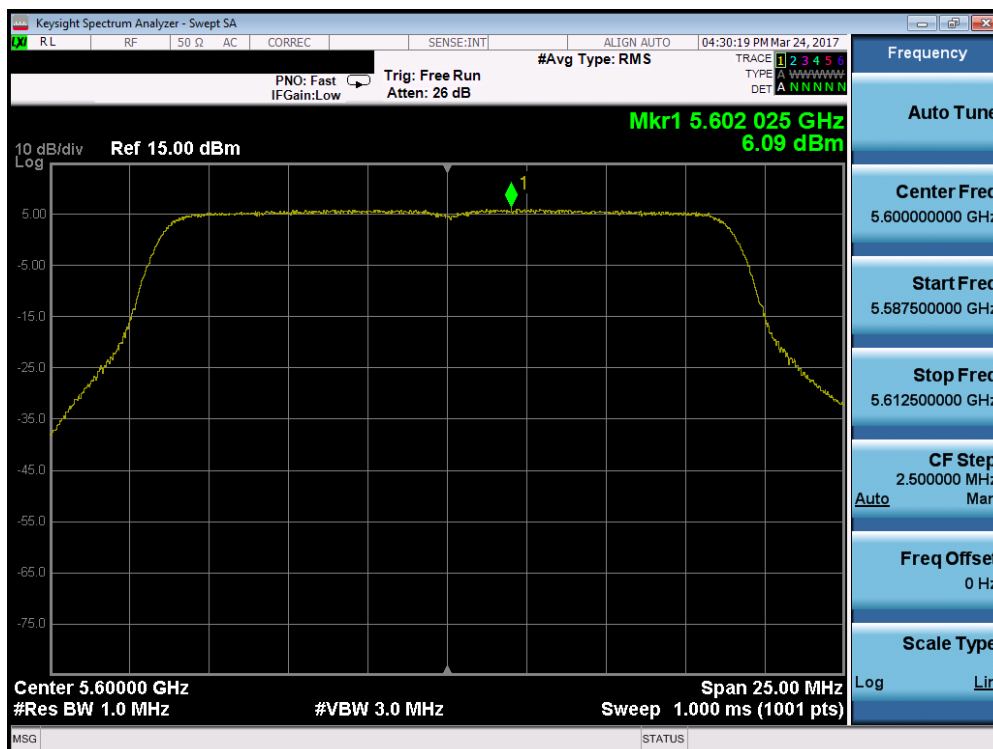


Plot 7-117. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 144)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 90 of 227

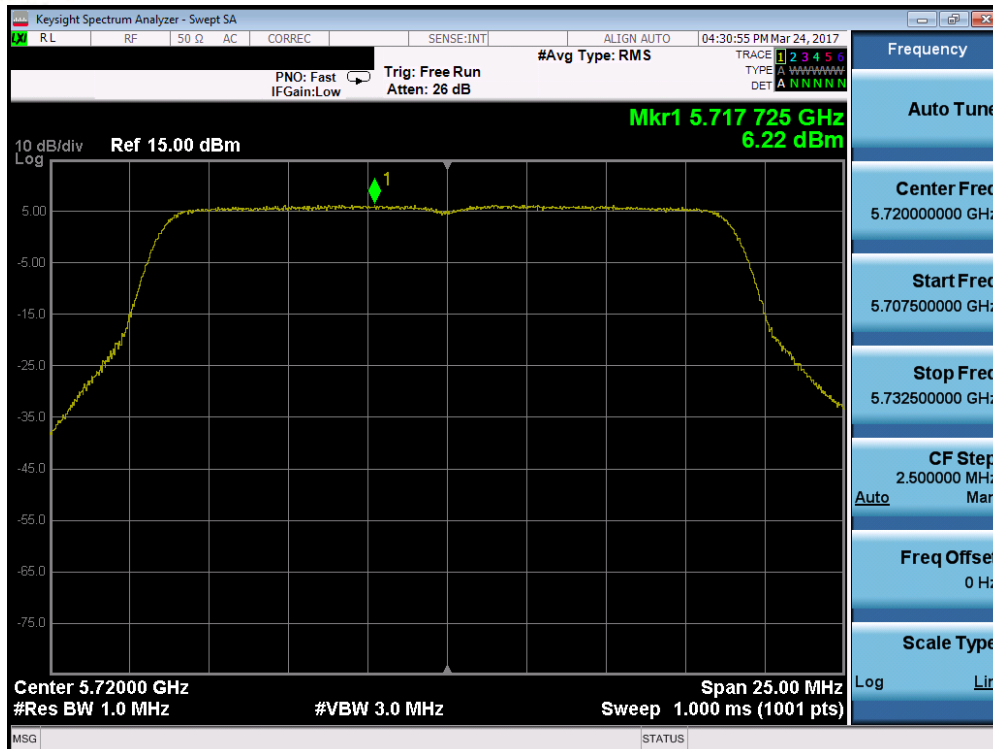


Plot 7-118. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

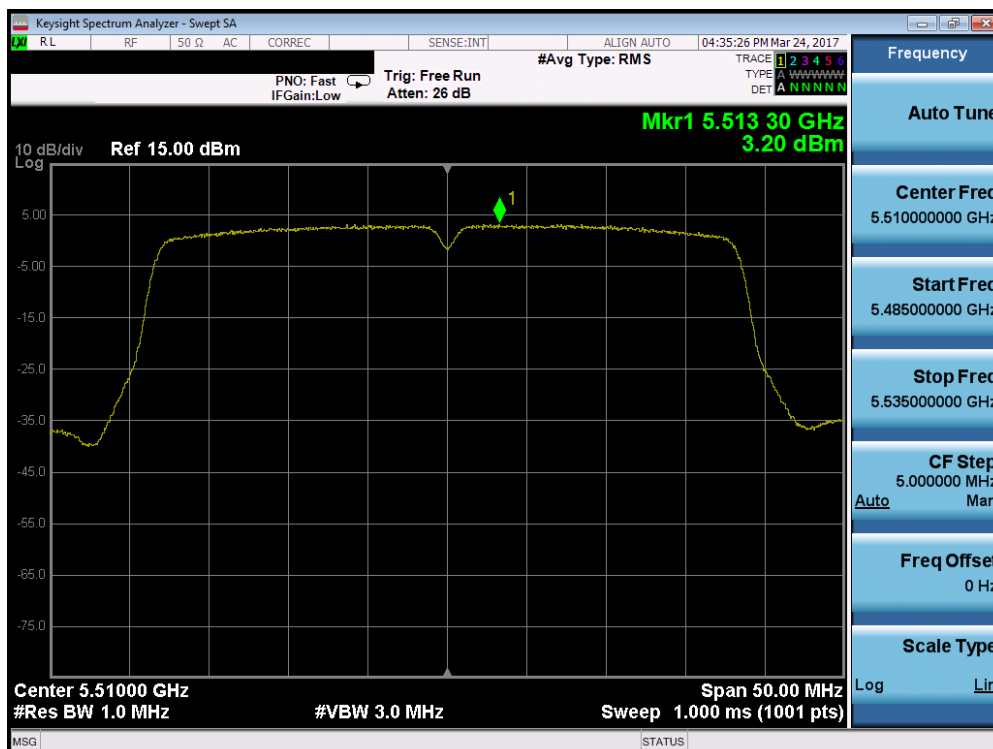


Plot 7-119. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 91 of 227

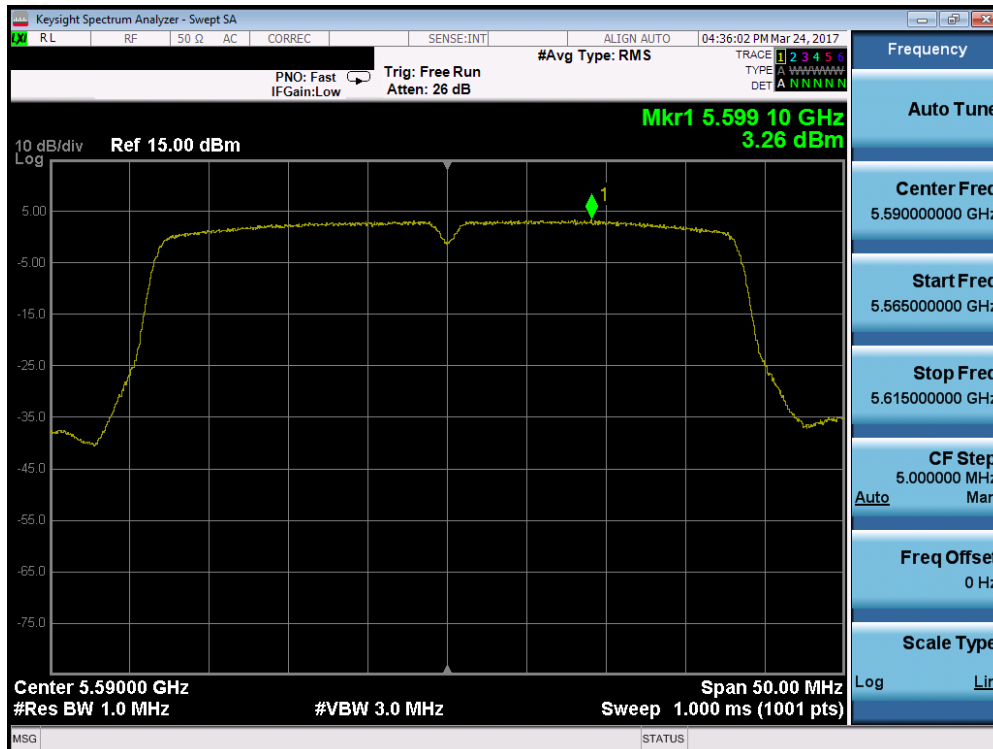


Plot 7-120. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

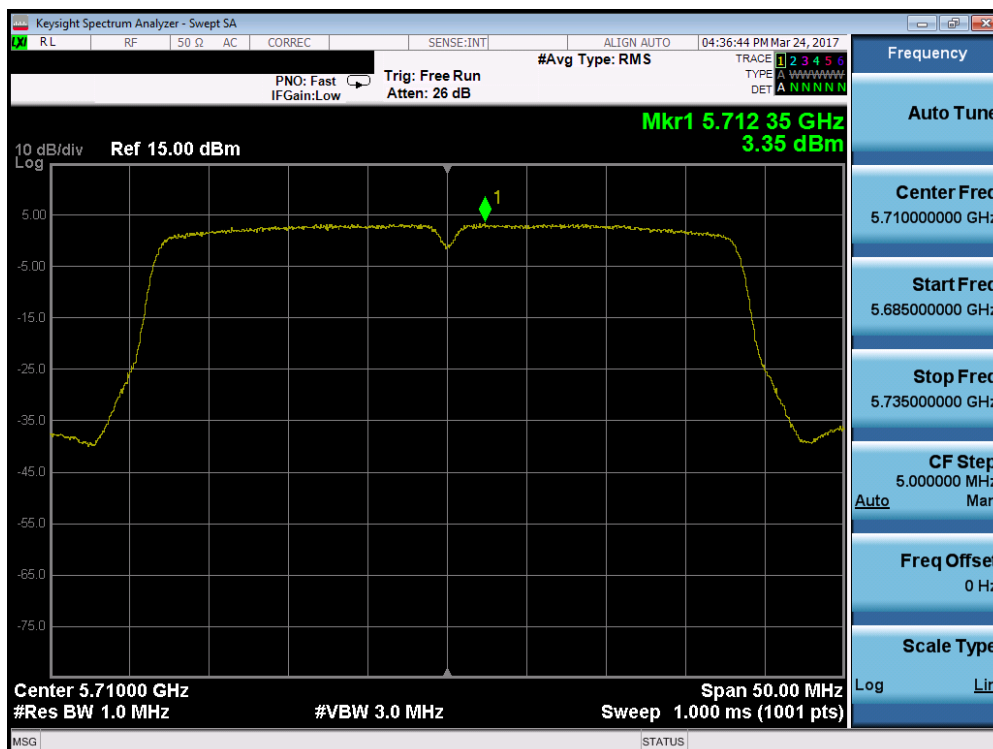


Plot 7-121. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 92 of 227

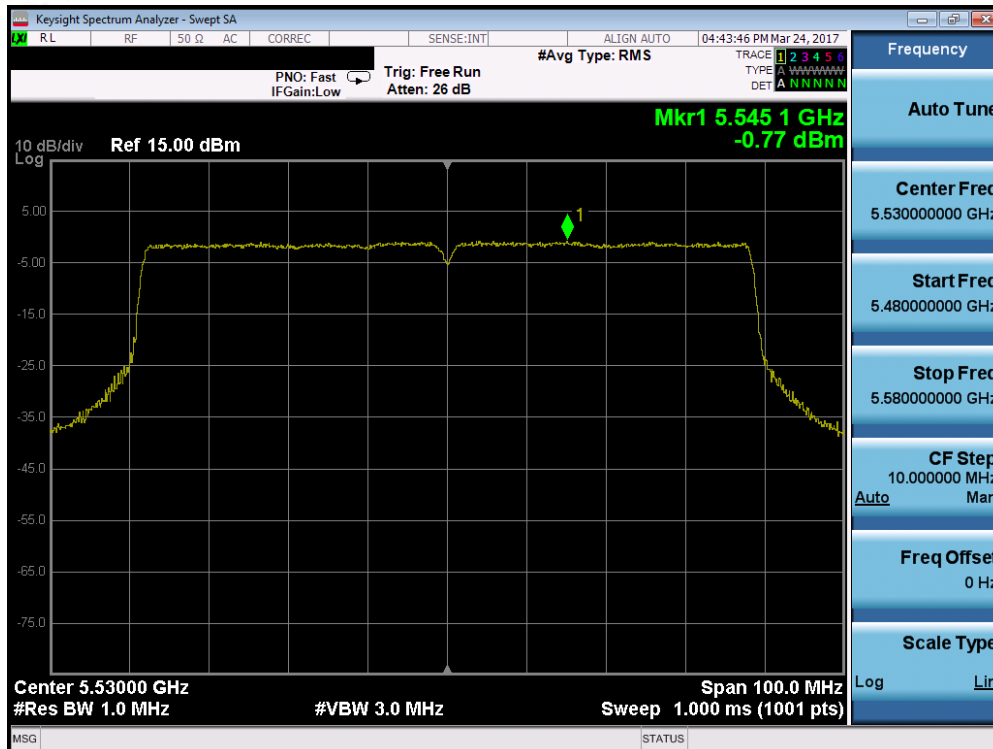


Plot 7-122. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

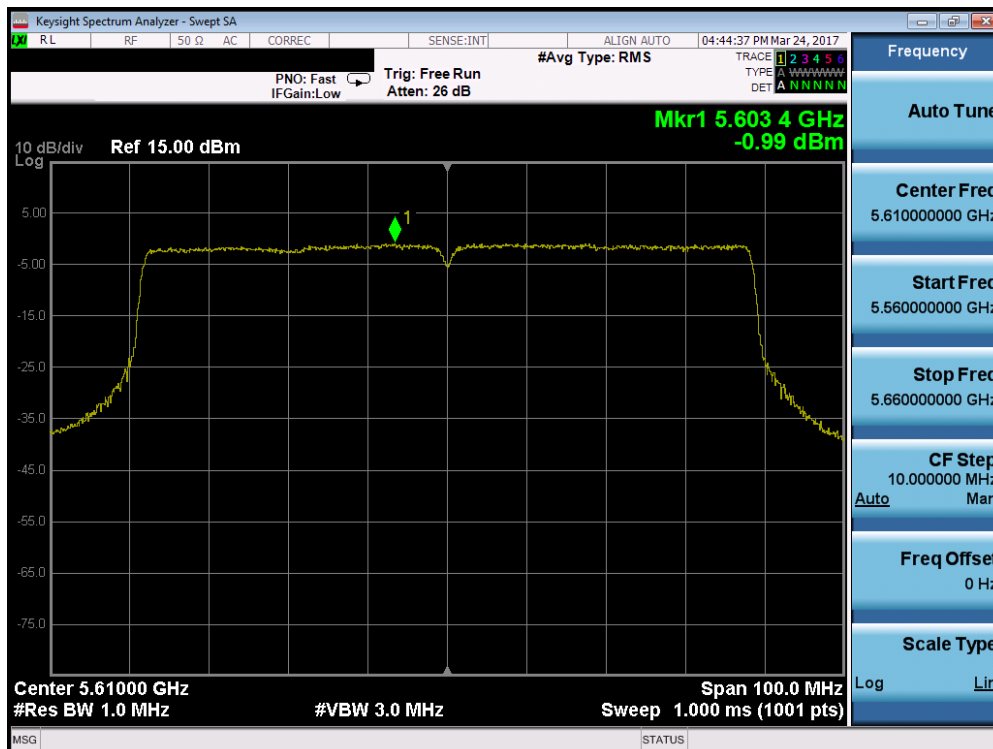


Plot 7-123. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 93 of 227

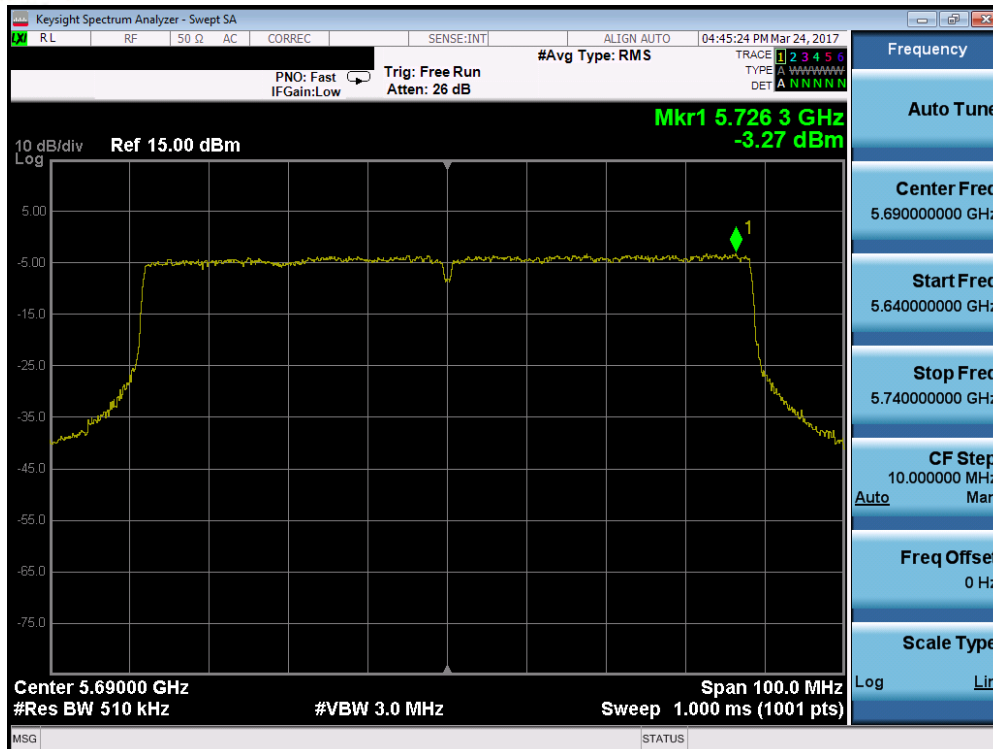


Plot 7-124. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)



Plot 7-125. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 94 of 227



Plot 7-126. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point			Page 95 of 227

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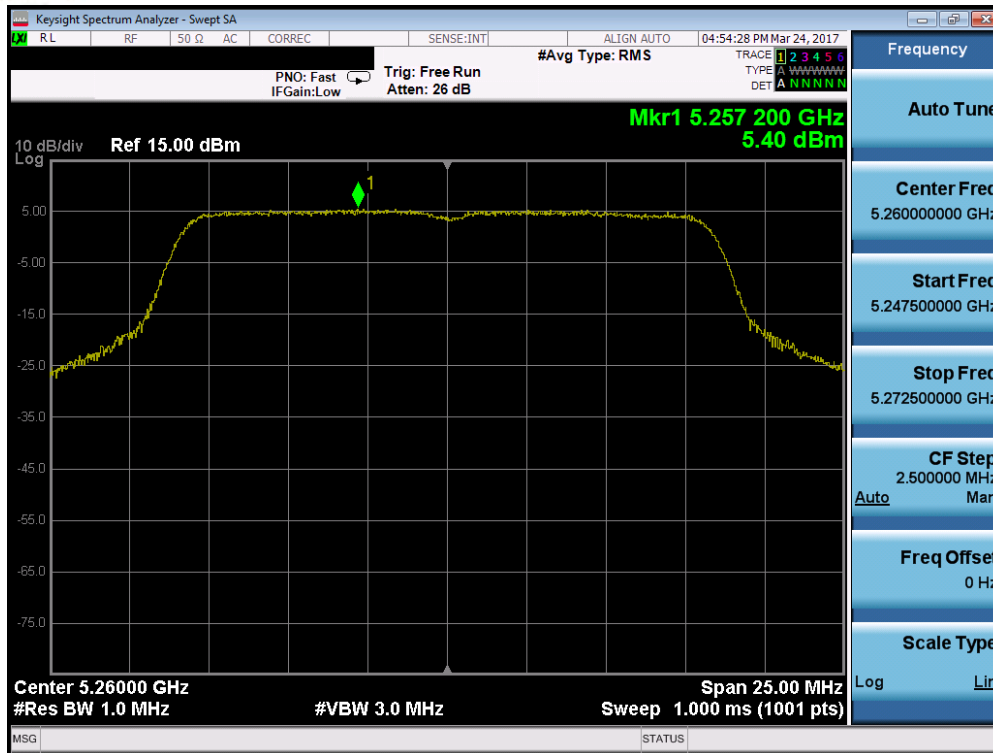
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Antenna-3 Power Spectral Density Measurements

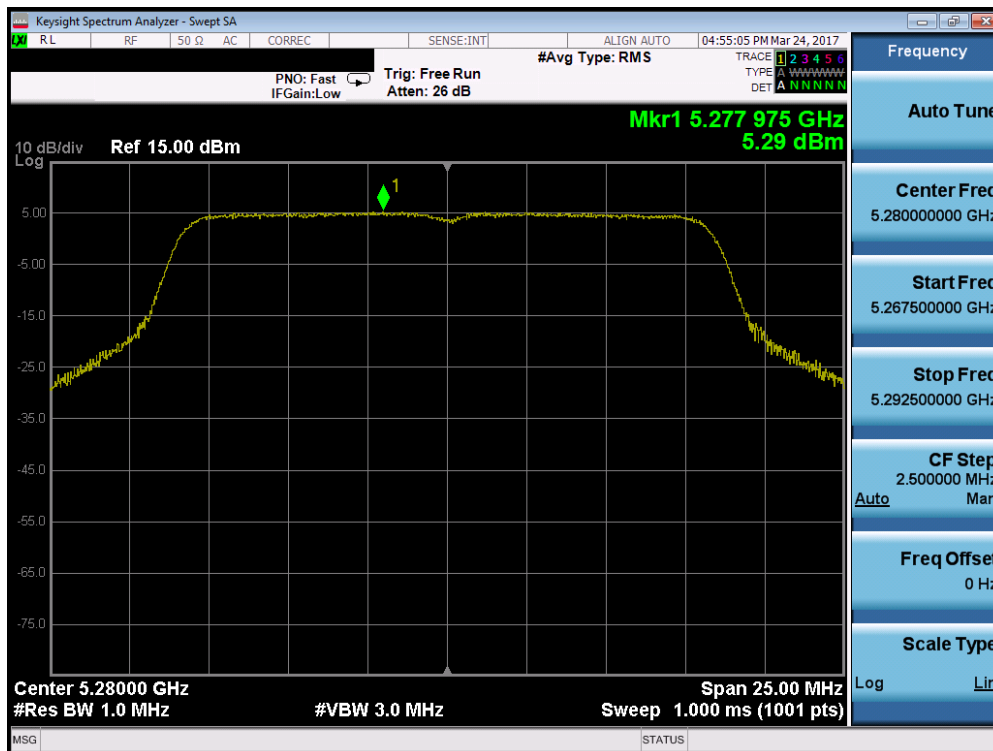
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]	Pass / Fail
Band 2A	5260	52	a	6	5.40	11.0	-5.60	Pass
	5280	56	a	6	5.29	11.0	-5.71	Pass
	5320	64	a	6	5.97	11.0	-5.03	Pass
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	5.32	11.0	-5.68	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	5.16	11.0	-5.84	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	5.61	11.0	-5.39	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.19	11.0	-8.81	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.61	11.0	-8.39	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-0.59	11.0	-11.59	Pass
Band 2C	5500	100	a	6	6.52	11.0	-4.48	Pass
	5600	120	a	6	6.28	11.0	-4.72	Pass
	5720	144	a	6	6.40	11.0	-4.60	Pass
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.35	11.0	-4.65	Pass
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.91	11.0	-5.09	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.17	11.0	-4.83	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	3.15	11.0	-7.85	Pass
	5590	118	n (40MHz)	13.5/15 (MCS0)	3.03	11.0	-7.97	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	3.20	11.0	-7.80	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-0.12	11.0	-11.12	Pass
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-0.02	11.0	-11.02	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-2.67	11.0	-13.67	Pass

Table 7-25. Bands 2A & 2C Conducted Power Spectral Density Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 96 of 227	

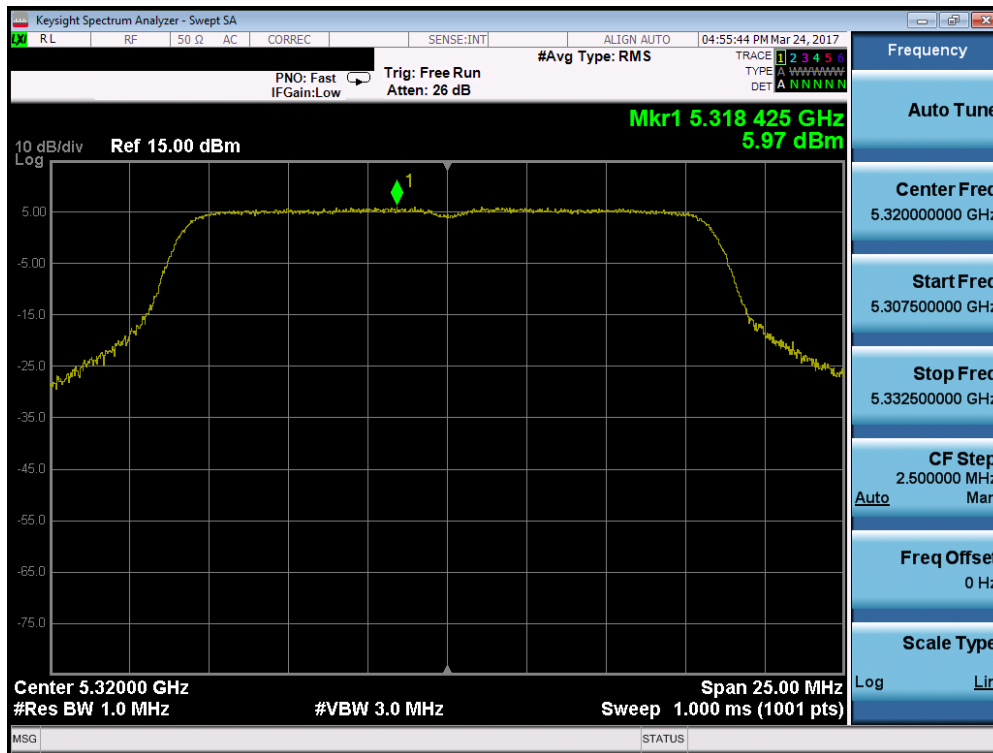


Plot 7-127. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

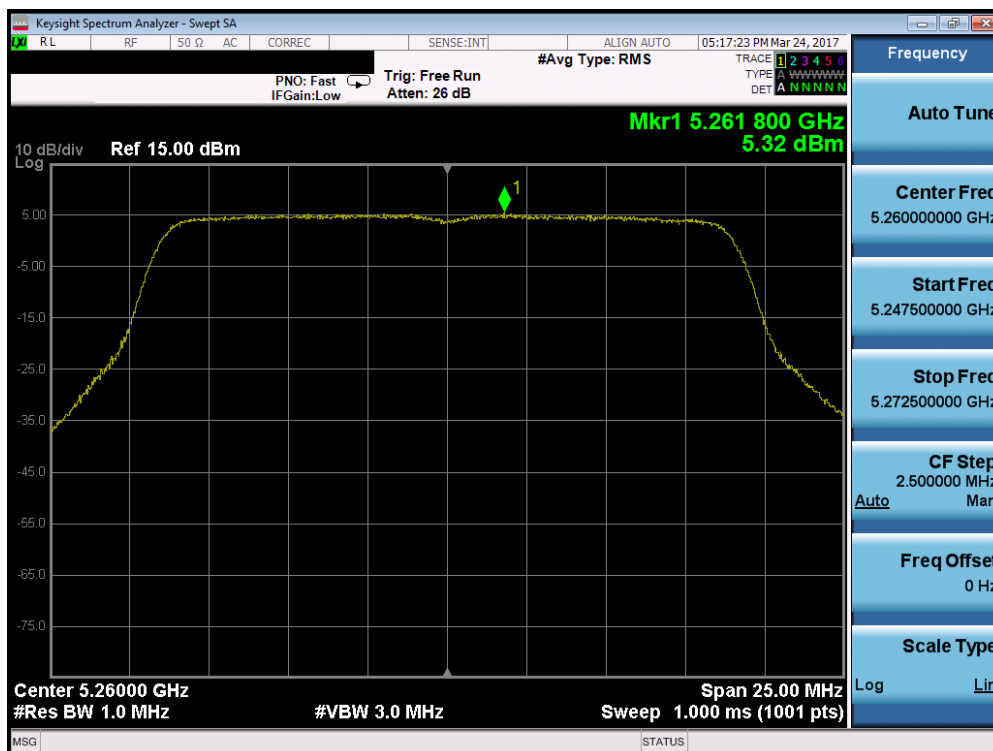


Plot 7-128. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 97 of 227

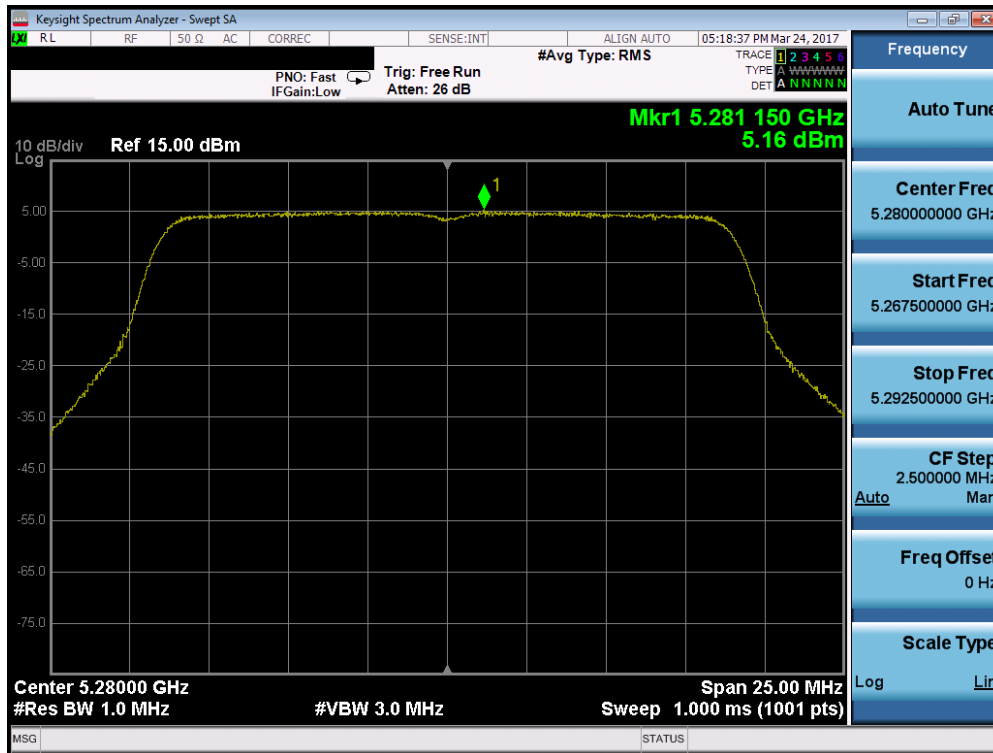


Plot 7-129. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

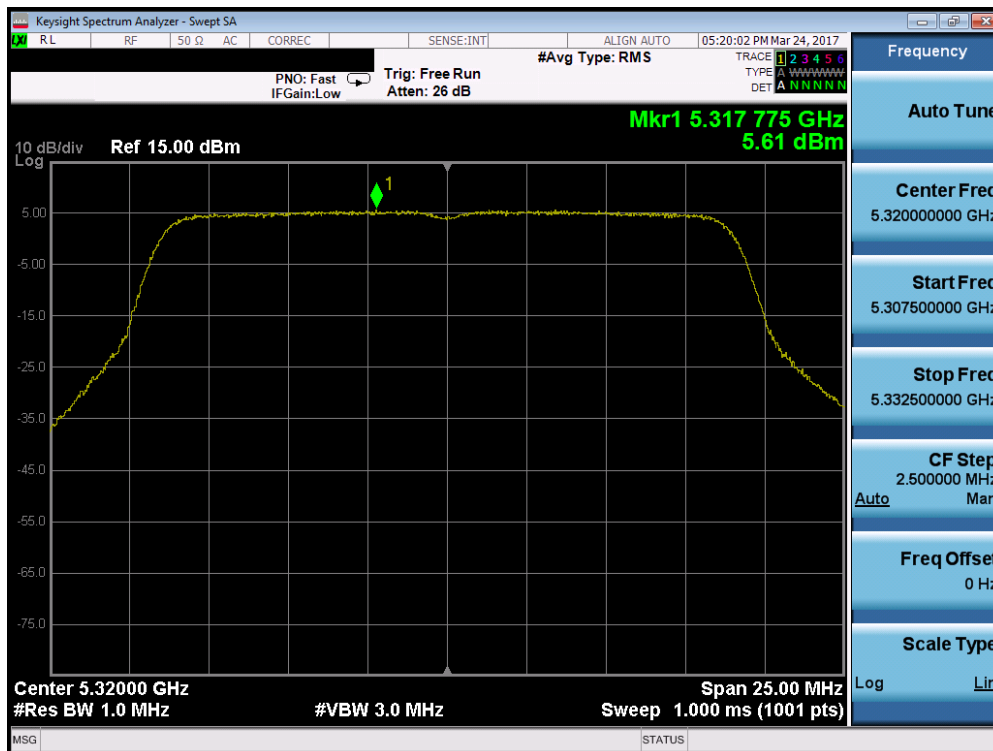


Plot 7-130. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 98 of 227

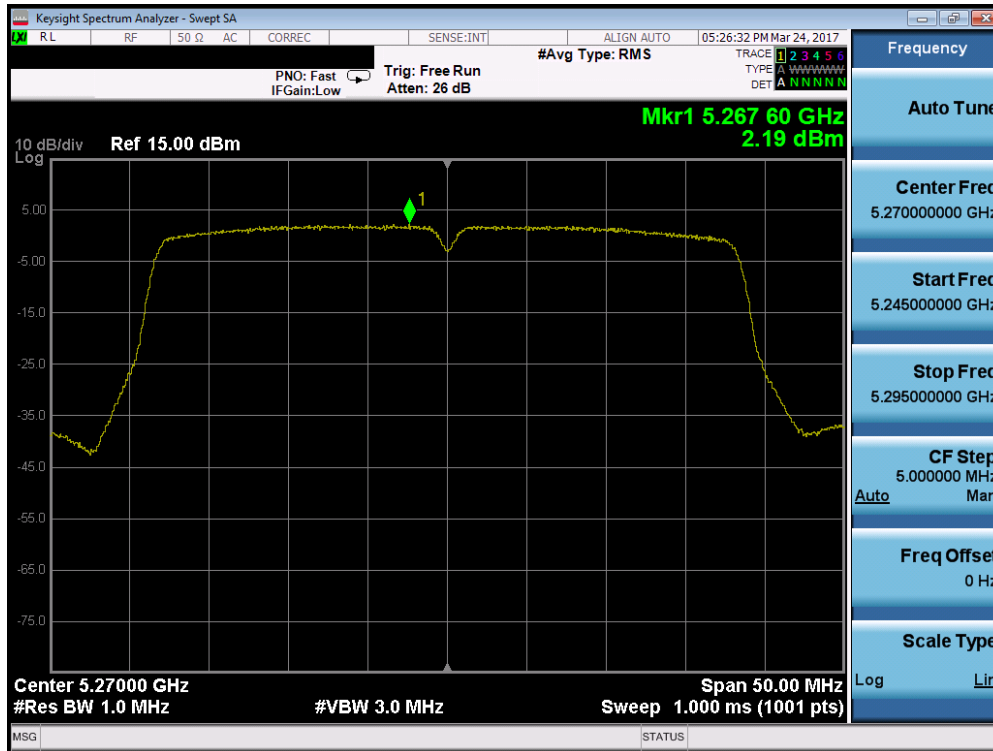


Plot 7-131. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

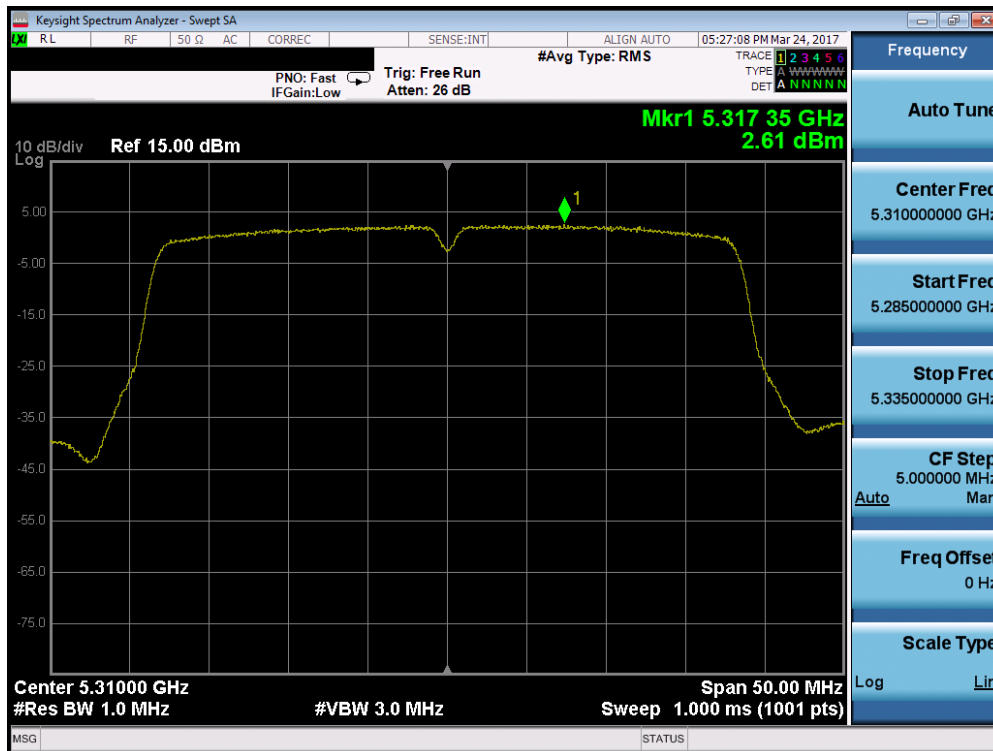


Plot 7-132. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 99 of 227

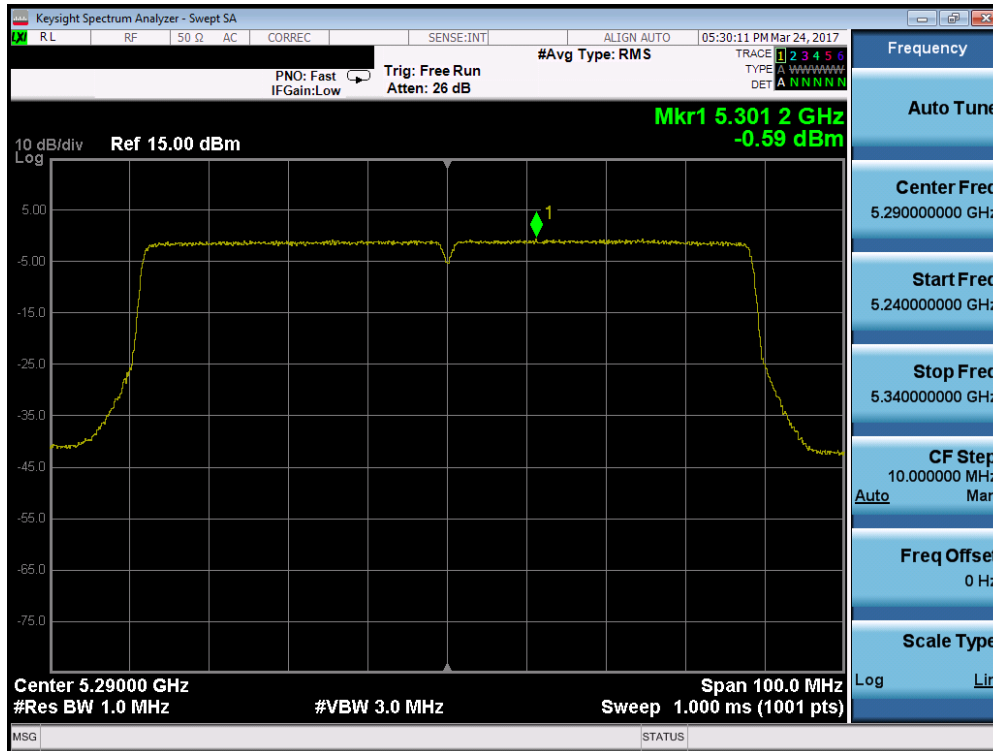


Plot 7-133. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

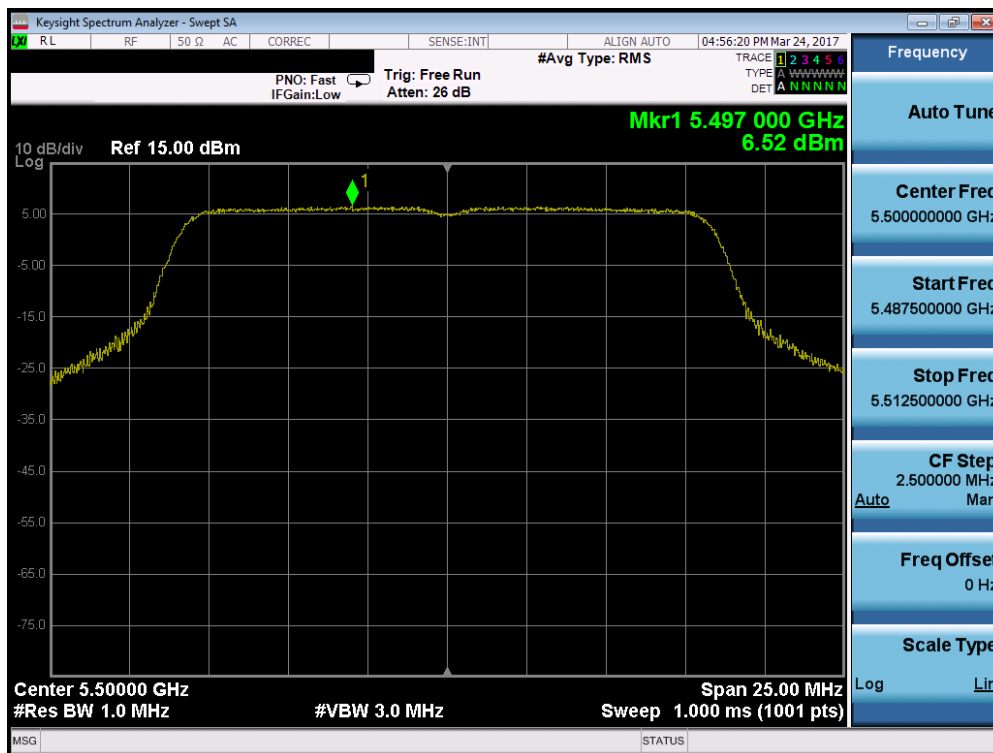


Plot 7-134. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 100 of 227

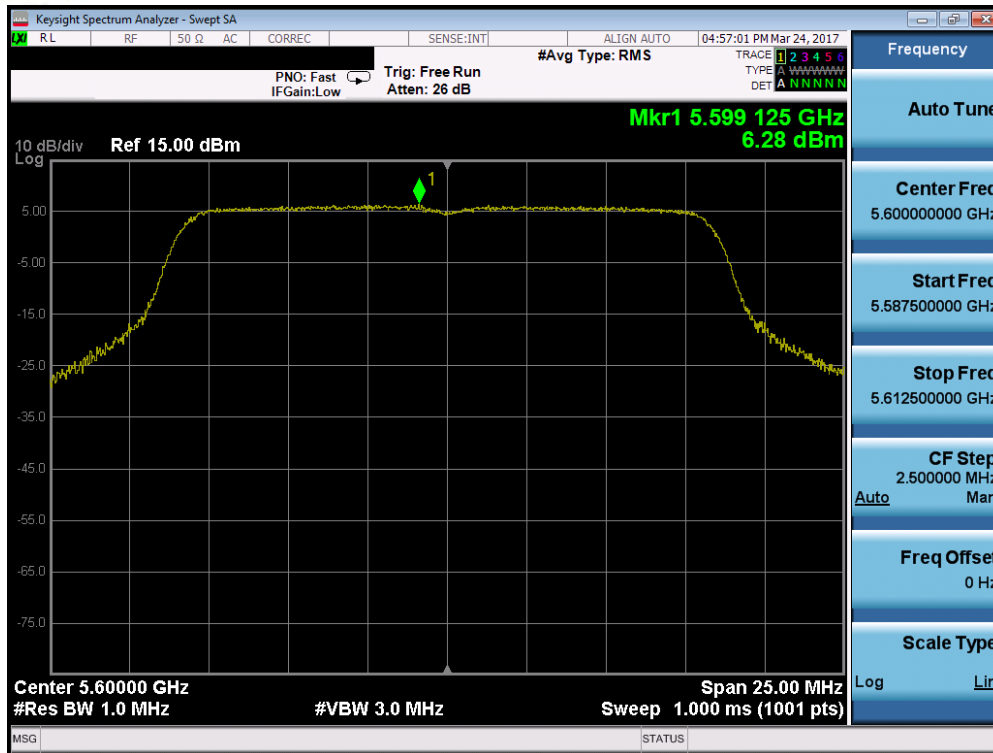


Plot 7-135. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

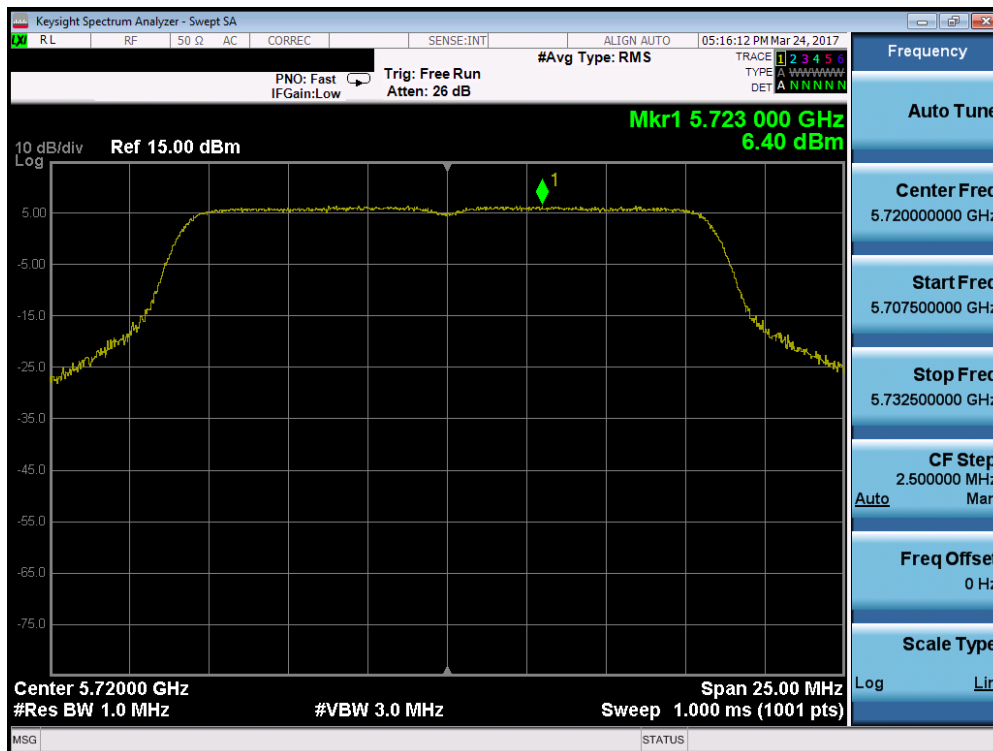


Plot 7-136. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 101 of 227

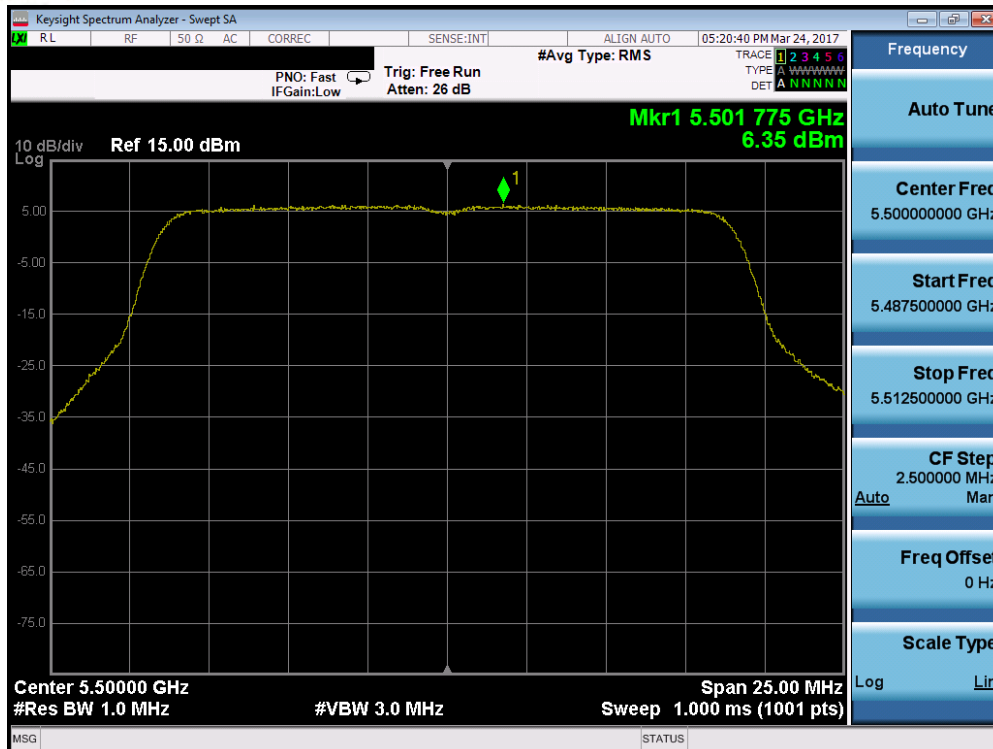


Plot 7-137. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 120)

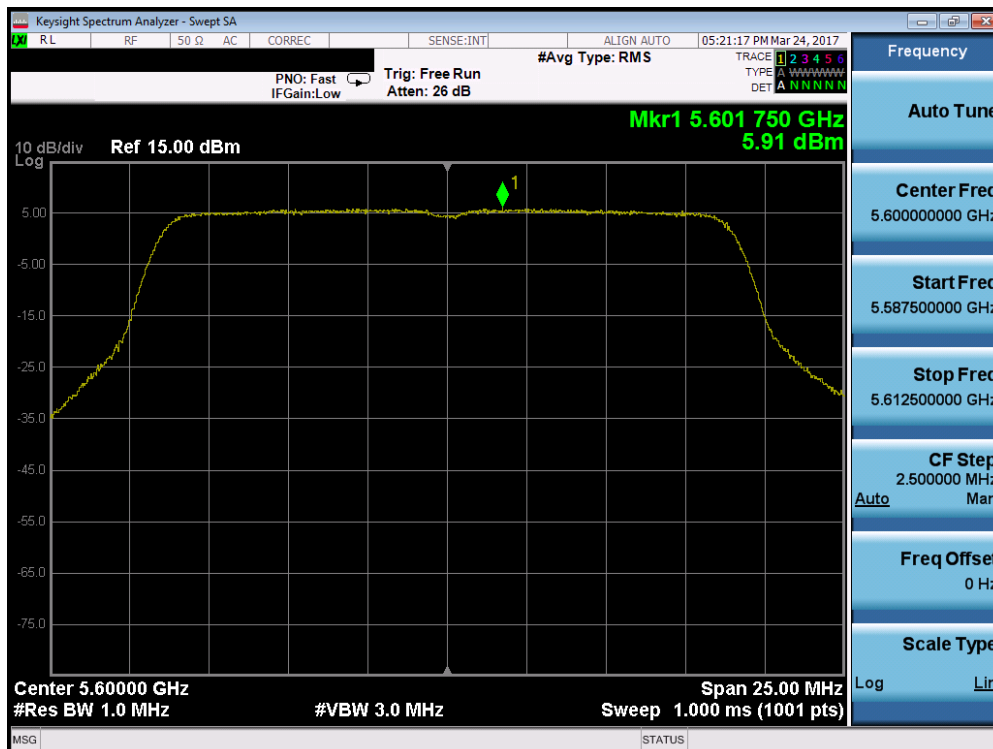


Plot 7-138. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 144)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 102 of 227

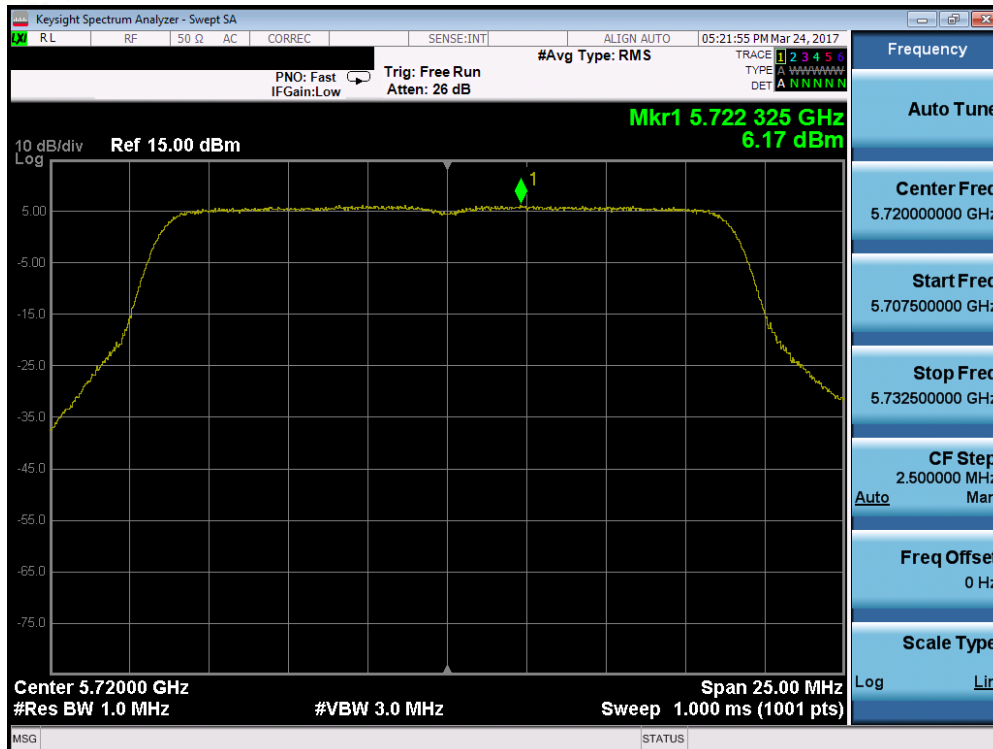


Plot 7-139. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

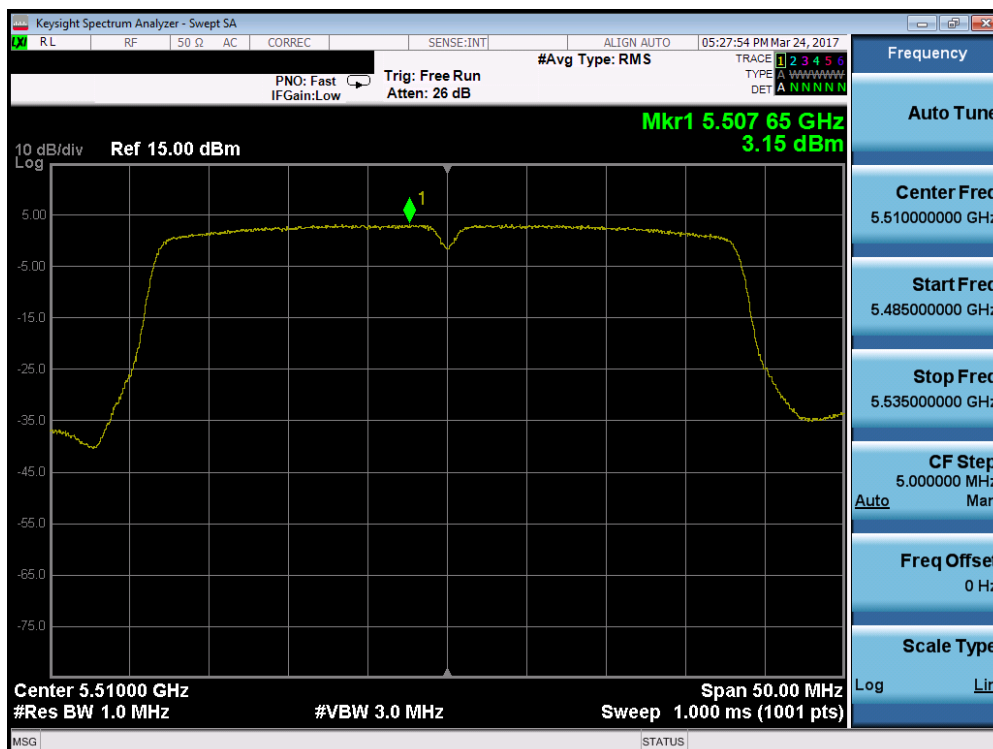


Plot 7-140. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 103 of 227

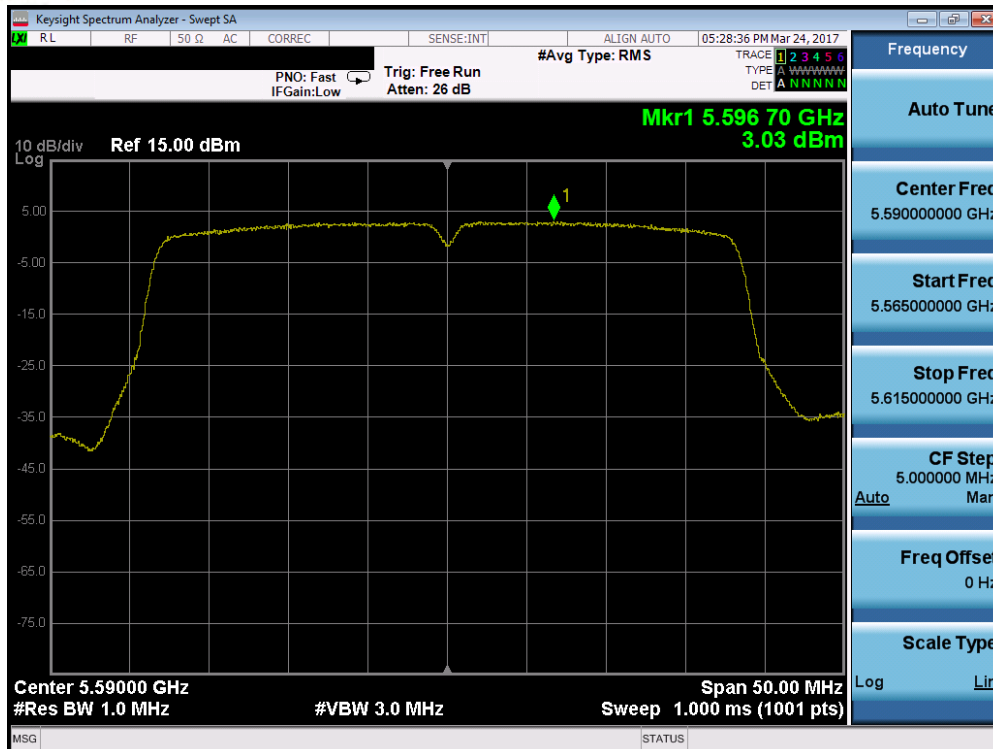


Plot 7-141. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

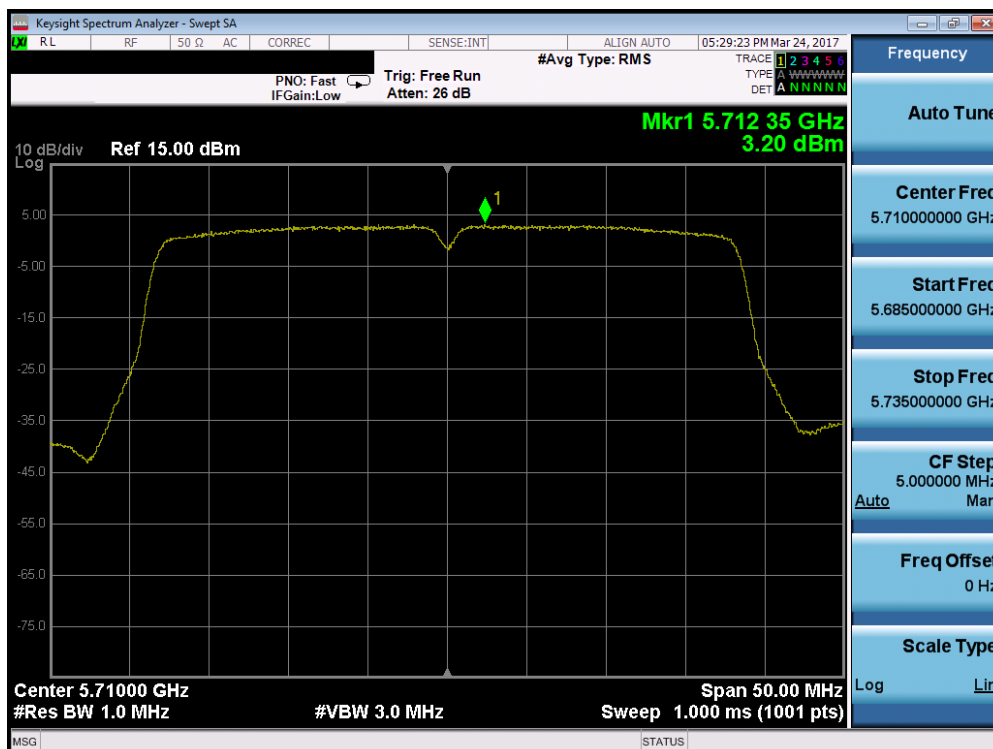


Plot 7-142. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 104 of 227

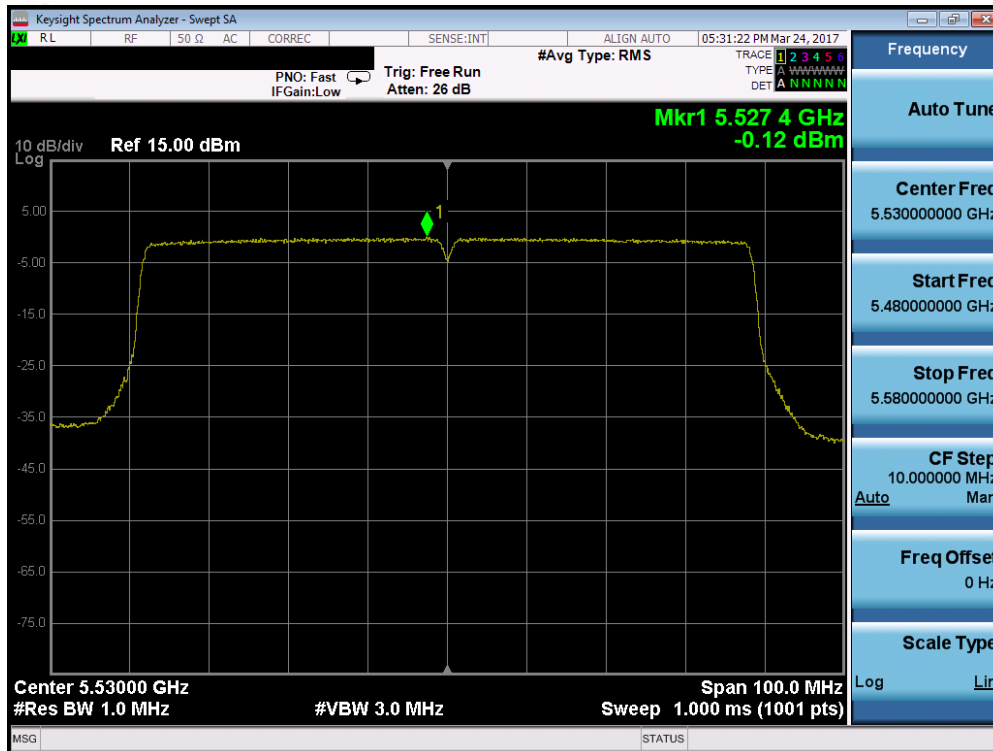


Plot 7-143. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

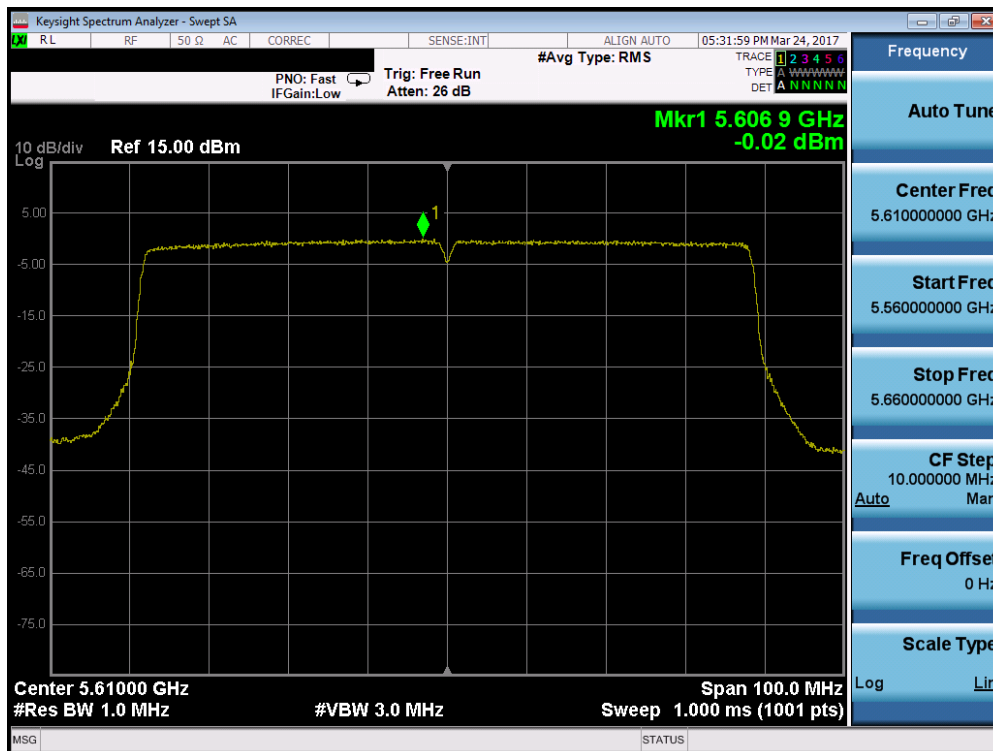


Plot 7-144. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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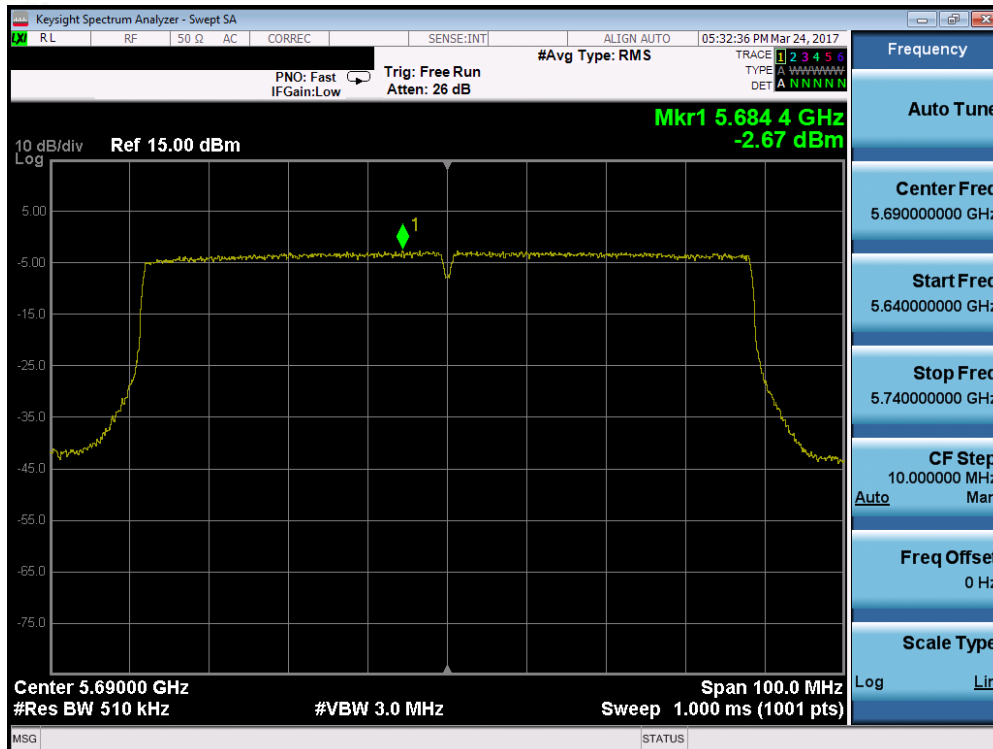


Plot 7-145. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)



Plot 7-146. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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Plot 7-147. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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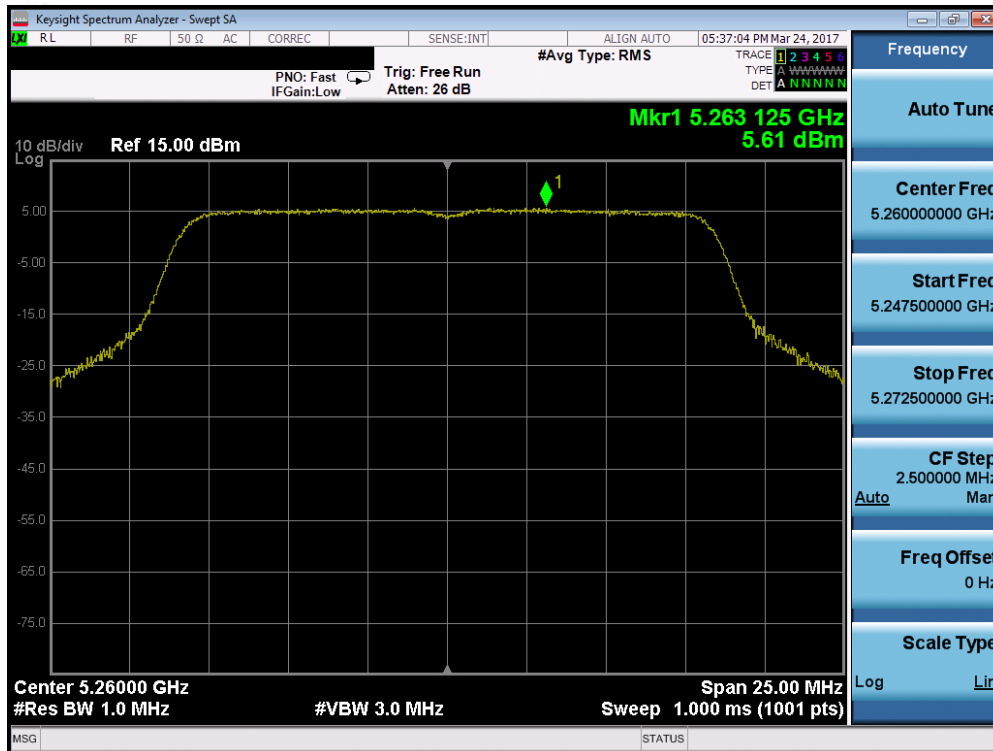
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Antenna-4 Power Spectral Density Measurements

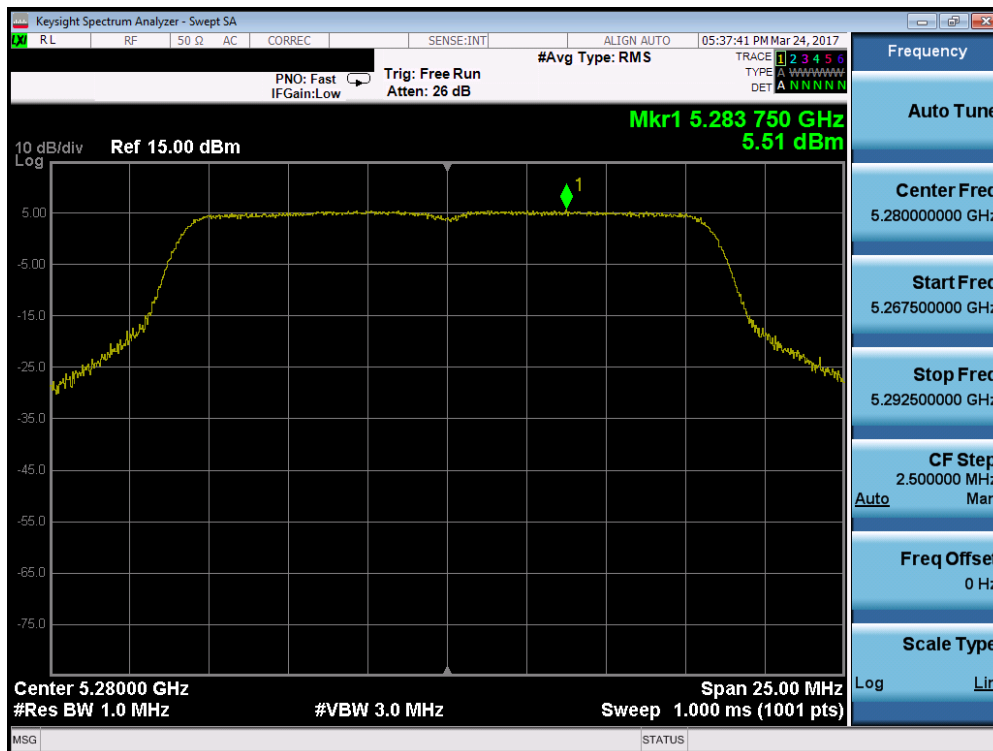
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]	Pass / Fail
Band 2A	5260	52	a	6	5.61	11.0	-5.39	Pass
	5280	56	a	6	5.51	11.0	-5.49	Pass
	5320	64	a	6	6.06	11.0	-4.94	Pass
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	5.48	11.0	-5.52	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	5.36	11.0	-5.64	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	5.65	11.0	-5.35	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.52	11.0	-8.48	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.98	11.0	-8.02	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	0.28	11.0	-10.72	Pass
Band 2C	5500	100	a	6	6.45	11.0	-4.55	Pass
	5600	120	a	6	6.59	11.0	-4.41	Pass
	5720	144	a	6	6.99	11.0	-4.01	Pass
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	5.91	11.0	-5.09	Pass
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	6.11	11.0	-4.89	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.51	11.0	-4.49	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	3.17	11.0	-7.83	Pass
	5590	118	n (40MHz)	13.5/15 (MCS0)	3.58	11.0	-7.42	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	3.30	11.0	-7.70	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	0.48	11.0	-10.52	Pass
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	0.36	11.0	-10.64	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-2.58	11.0	-13.58	Pass

Table 7-26. Bands 2A & 2C Conducted Power Spectral Density Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 108 of 227	

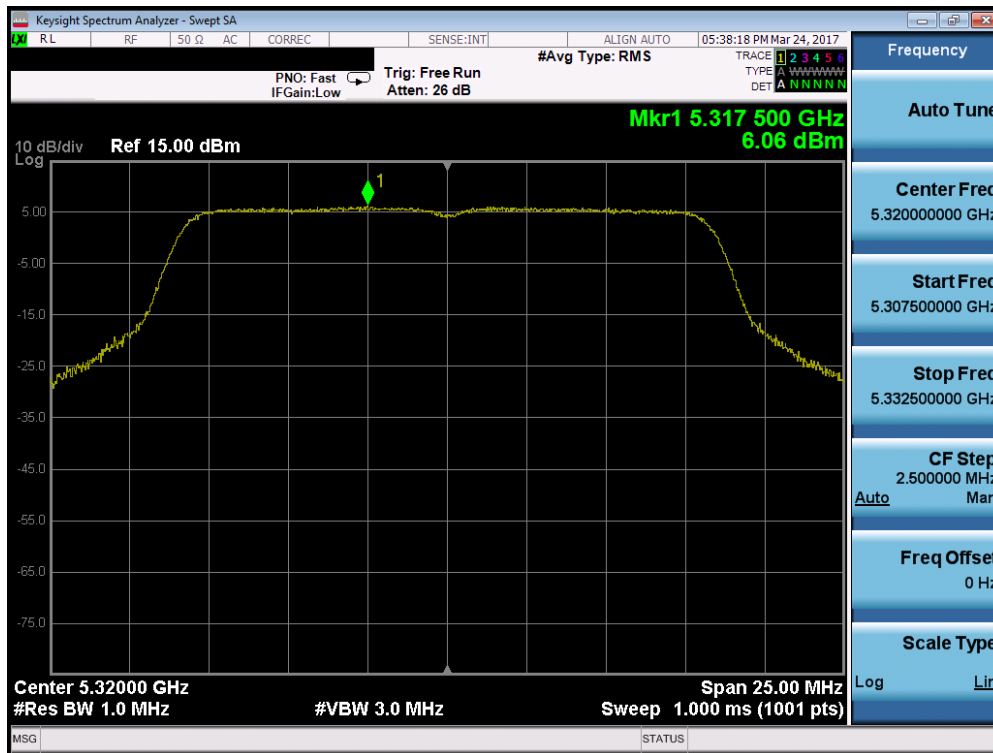


Plot 7-148. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

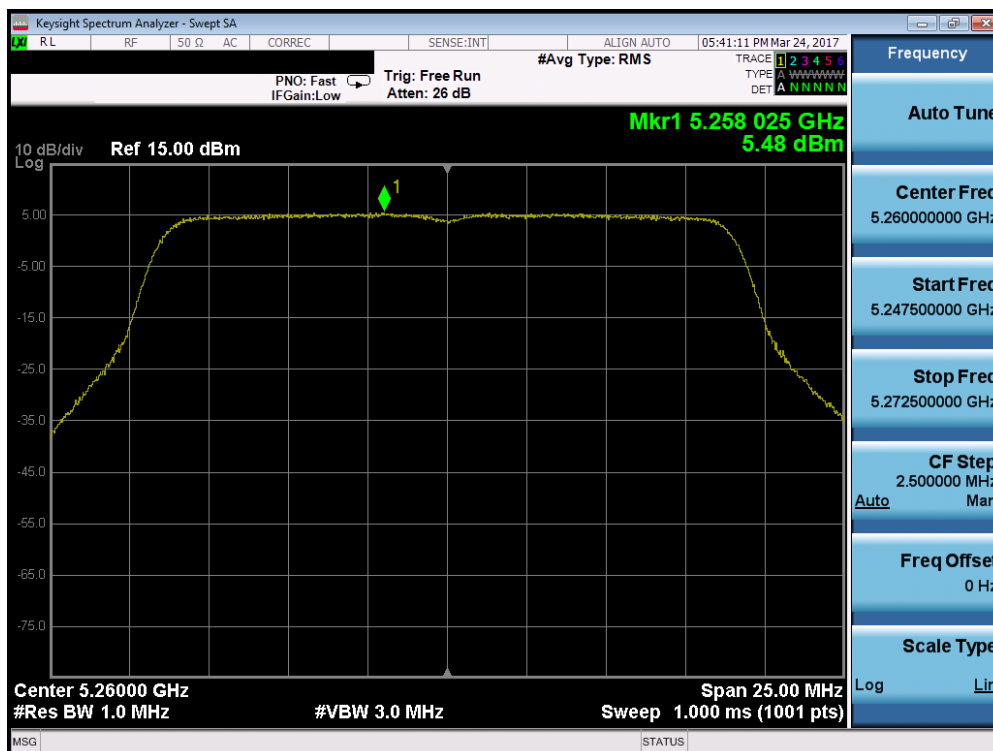


Plot 7-149. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 109 of 227

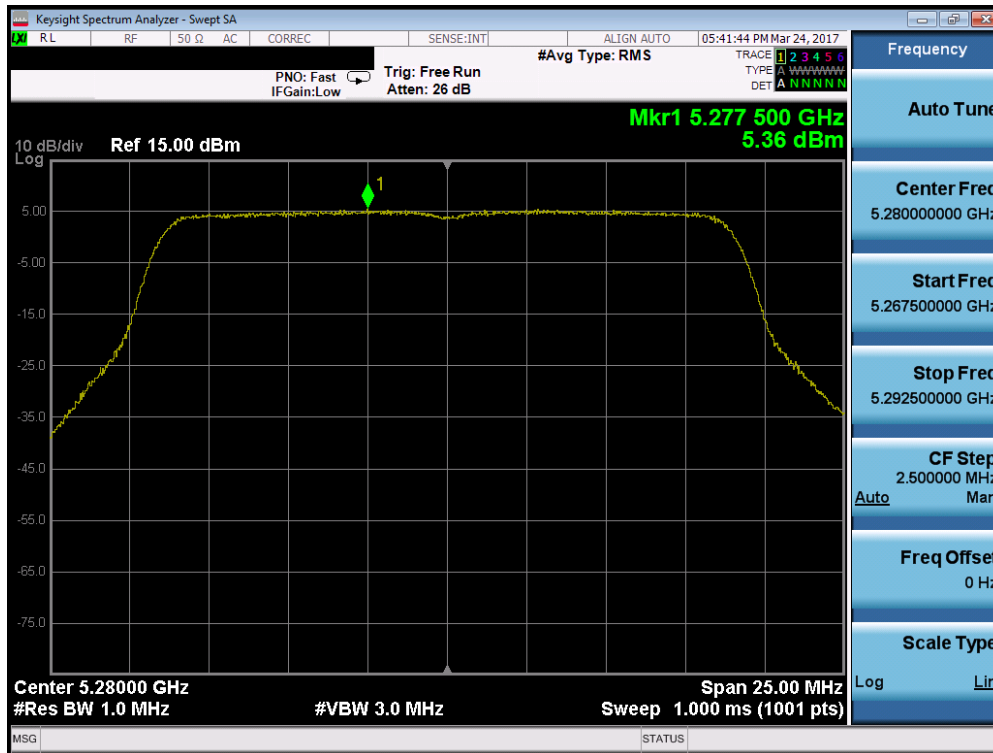


Plot 7-150. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

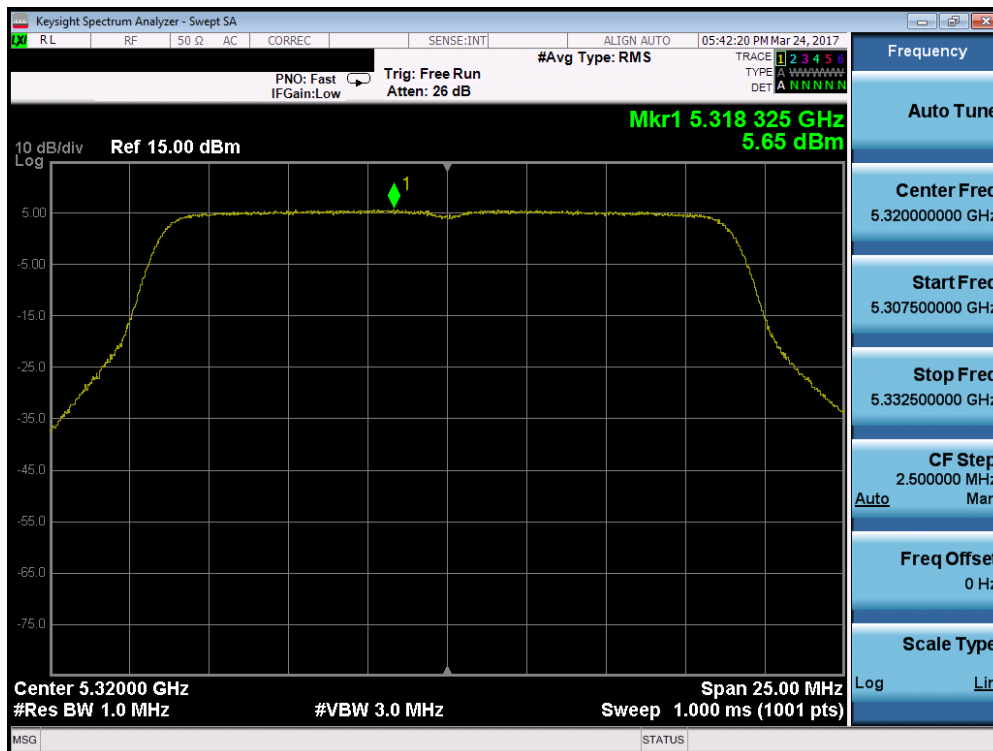


Plot 7-151. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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Plot 7-152. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)



Plot 7-153. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

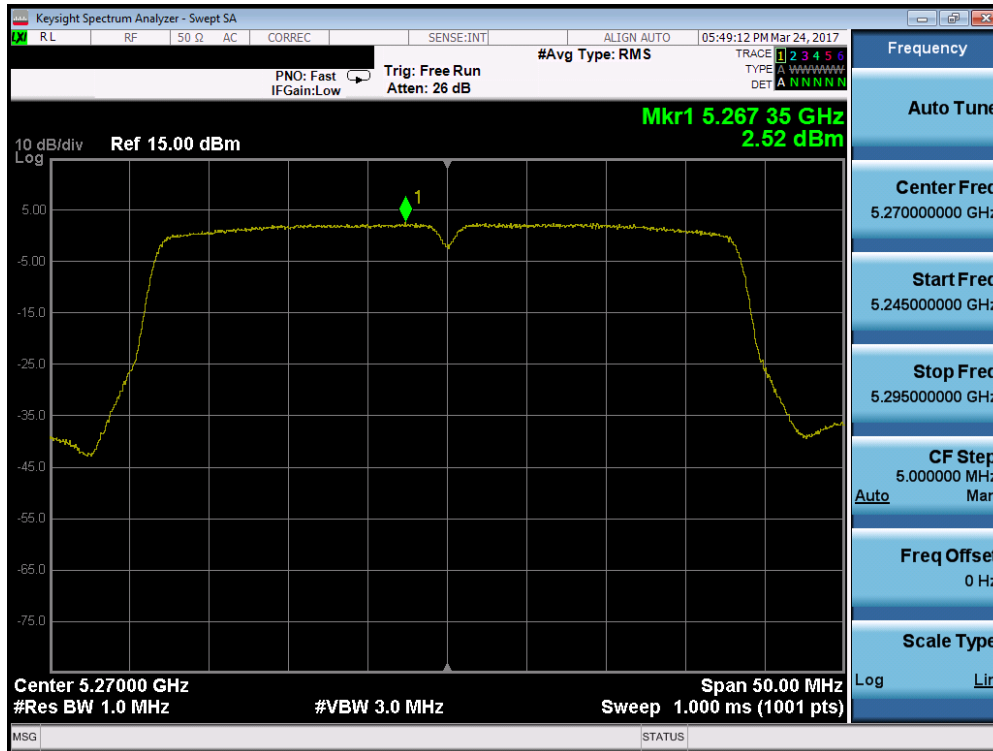
FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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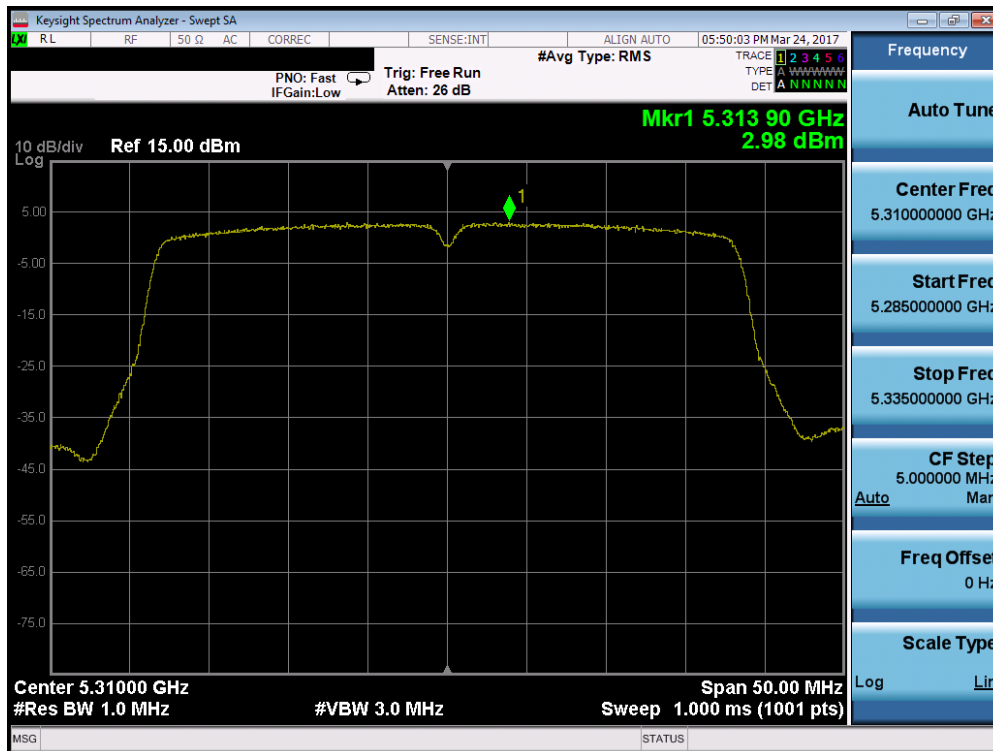
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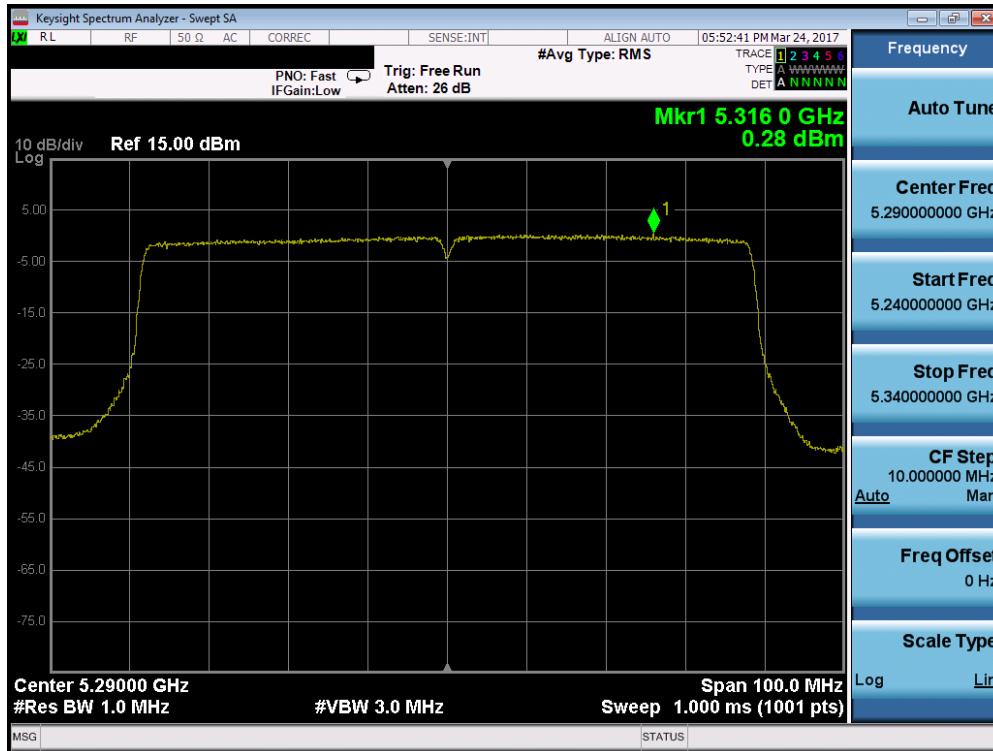


Plot 7-154. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

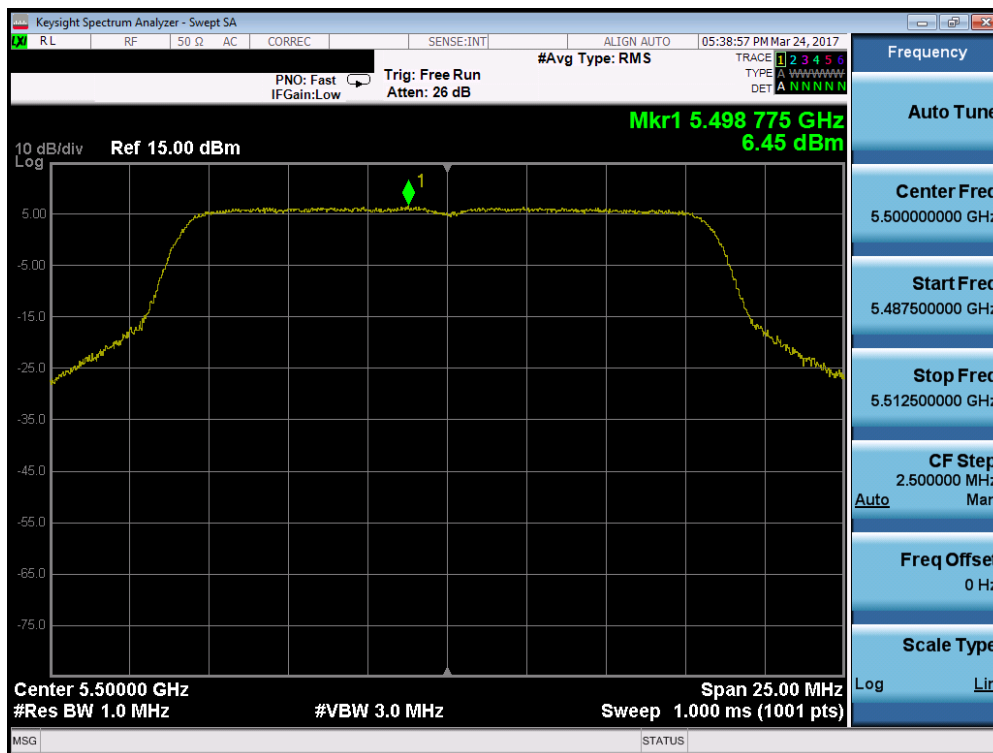


Plot 7-155. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 112 of 227

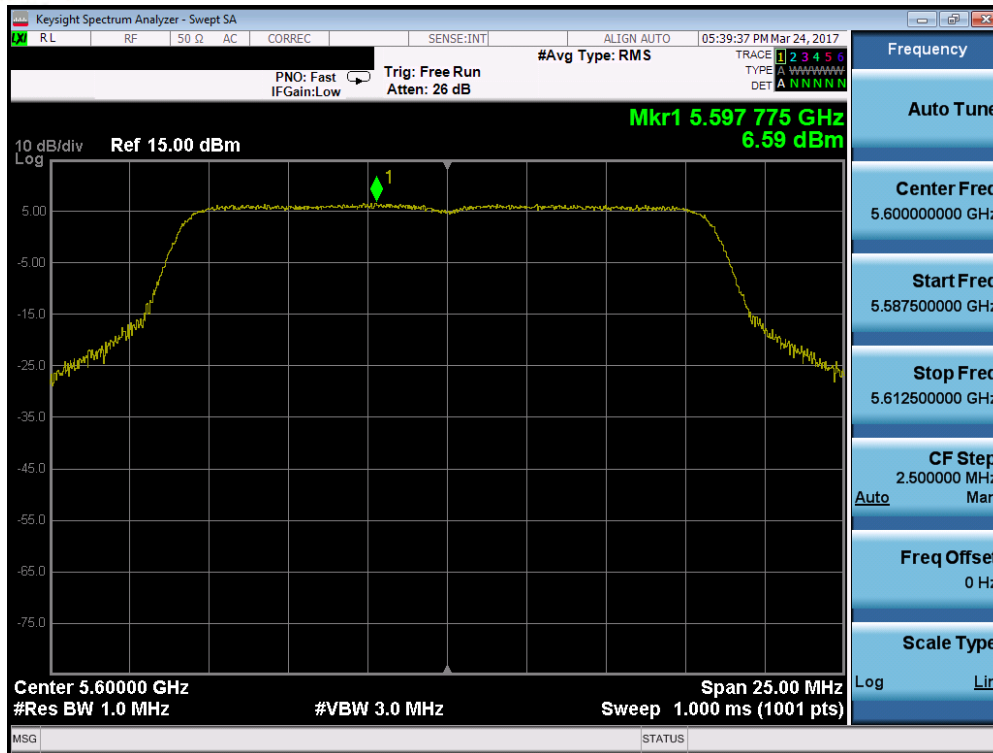


Plot 7-156. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

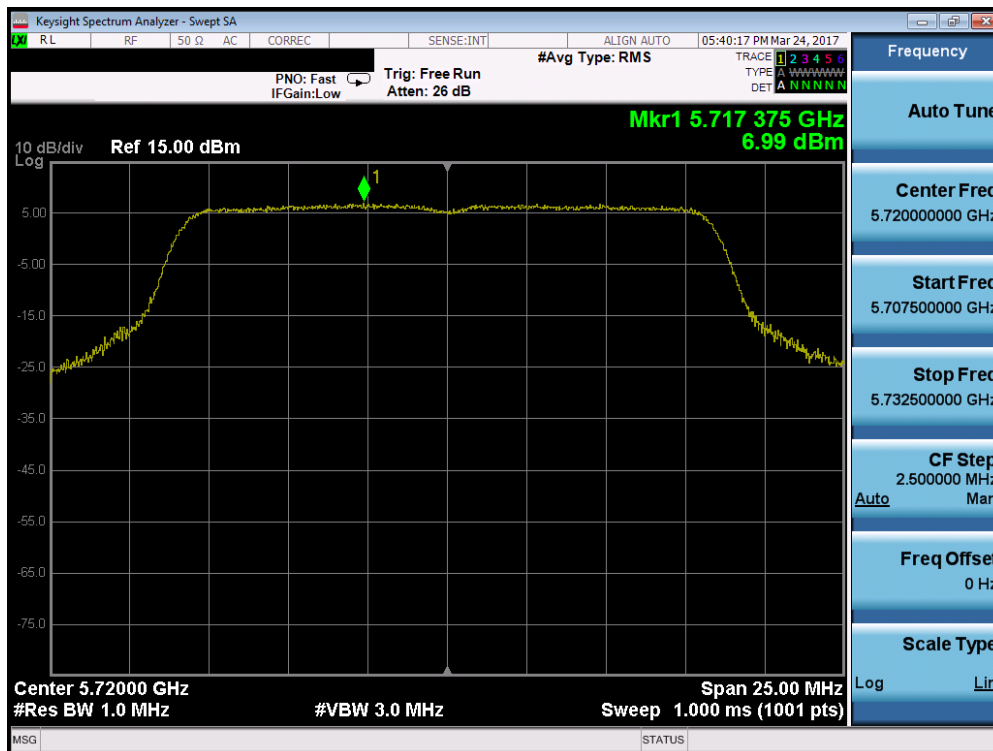


Plot 7-157. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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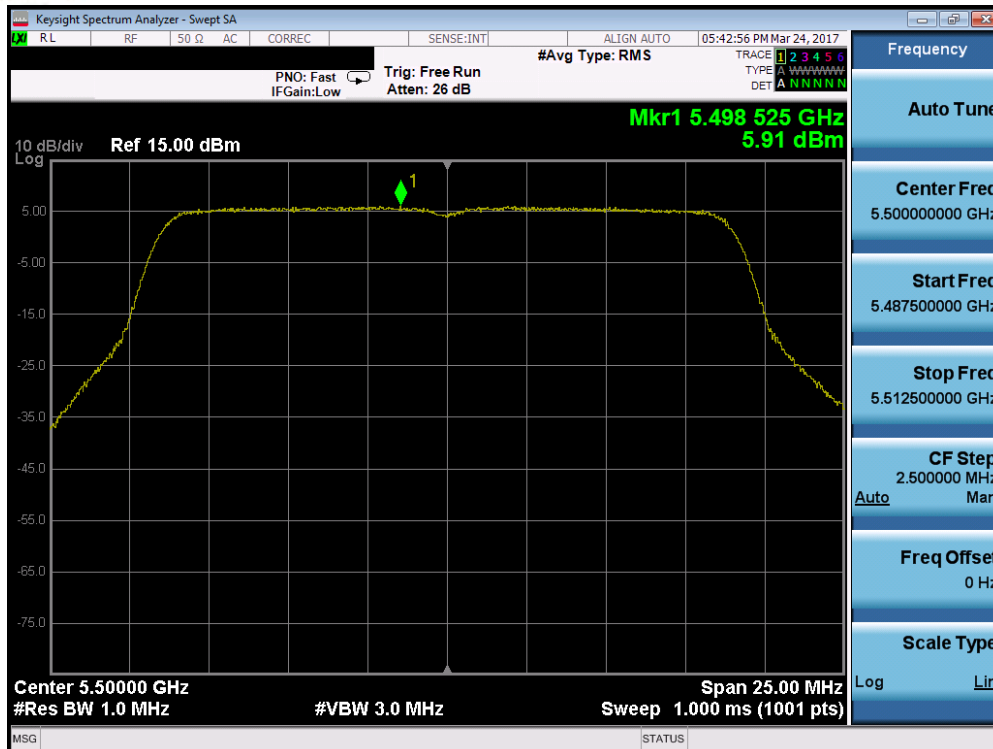


Plot 7-158. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 120)

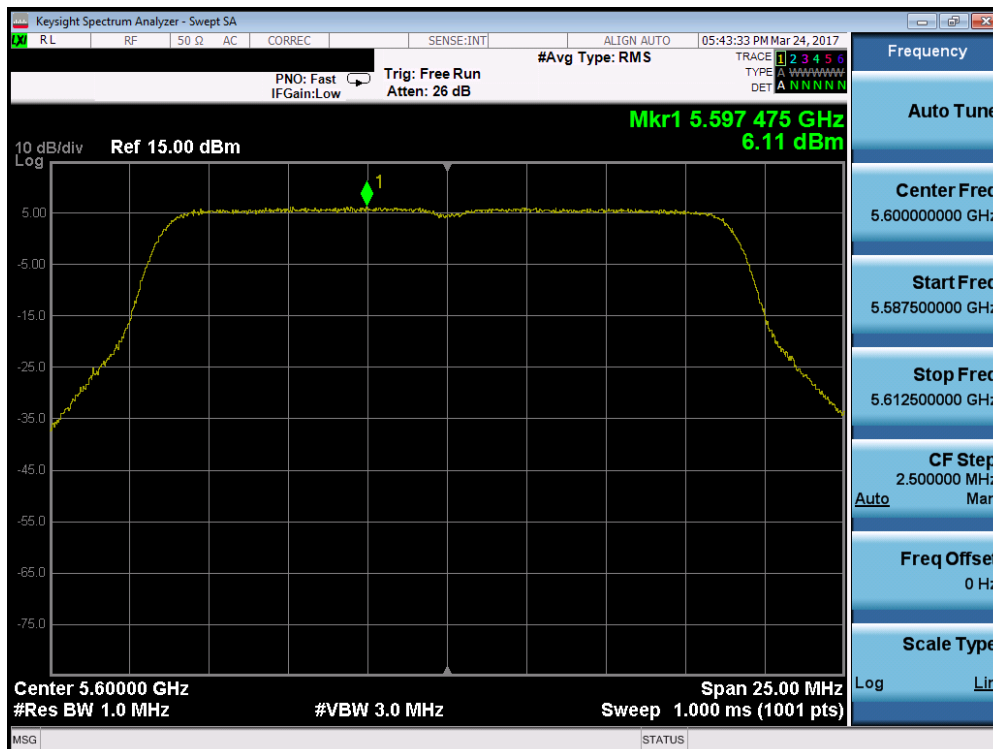


Plot 7-159. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 144)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 114 of 227

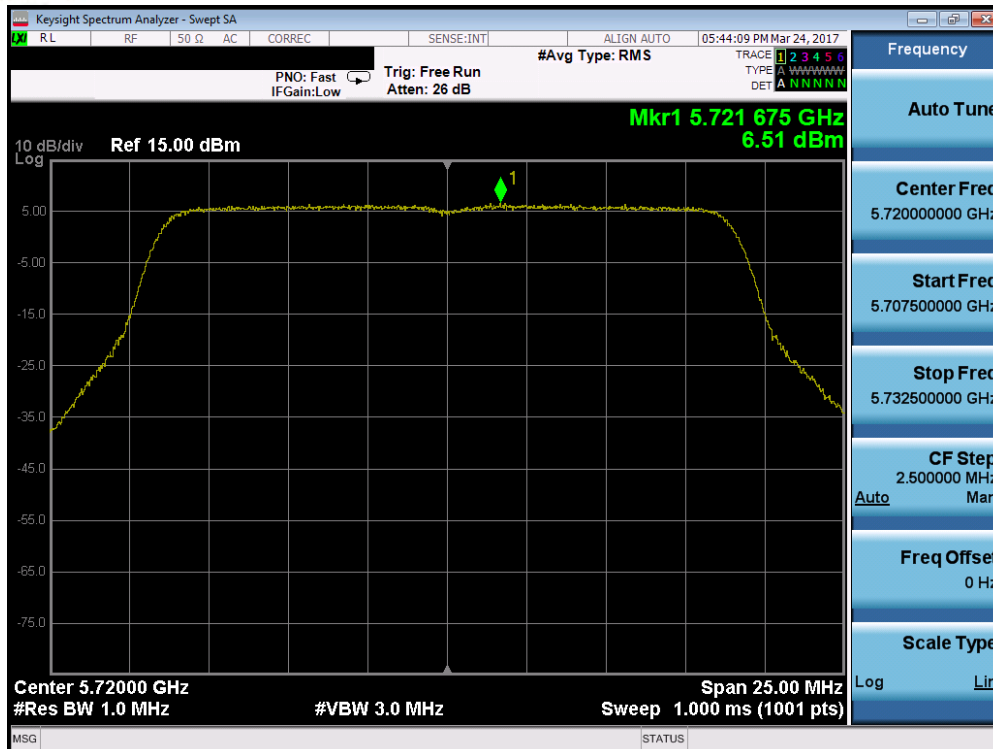


Plot 7-160. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

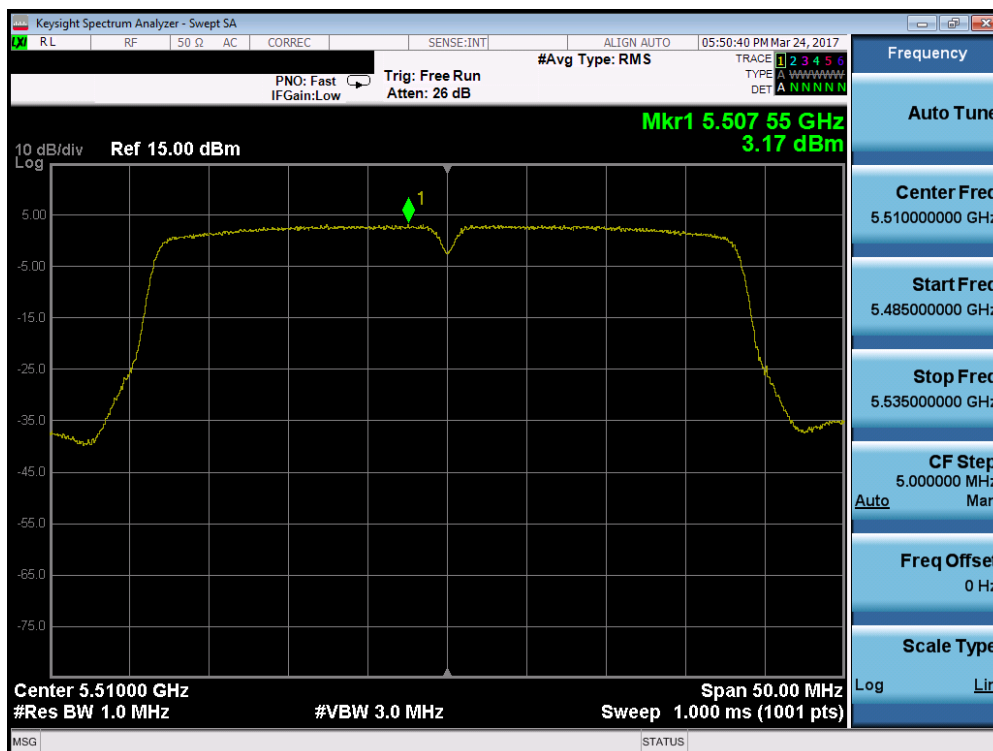


Plot 7-161. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 115 of 227

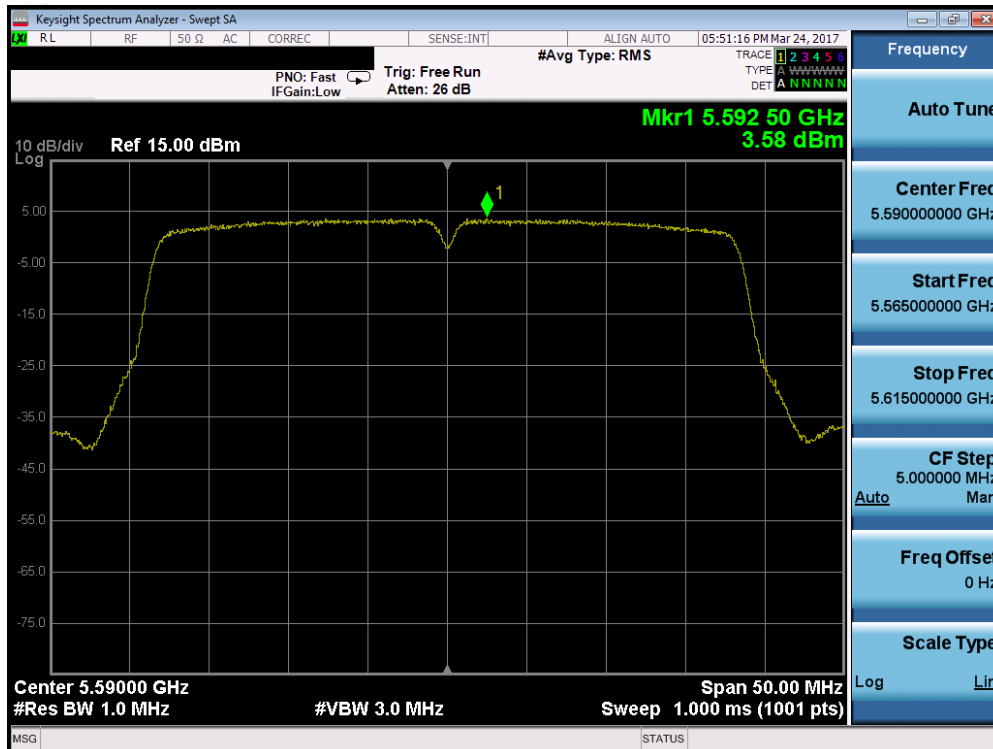


Plot 7-162. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

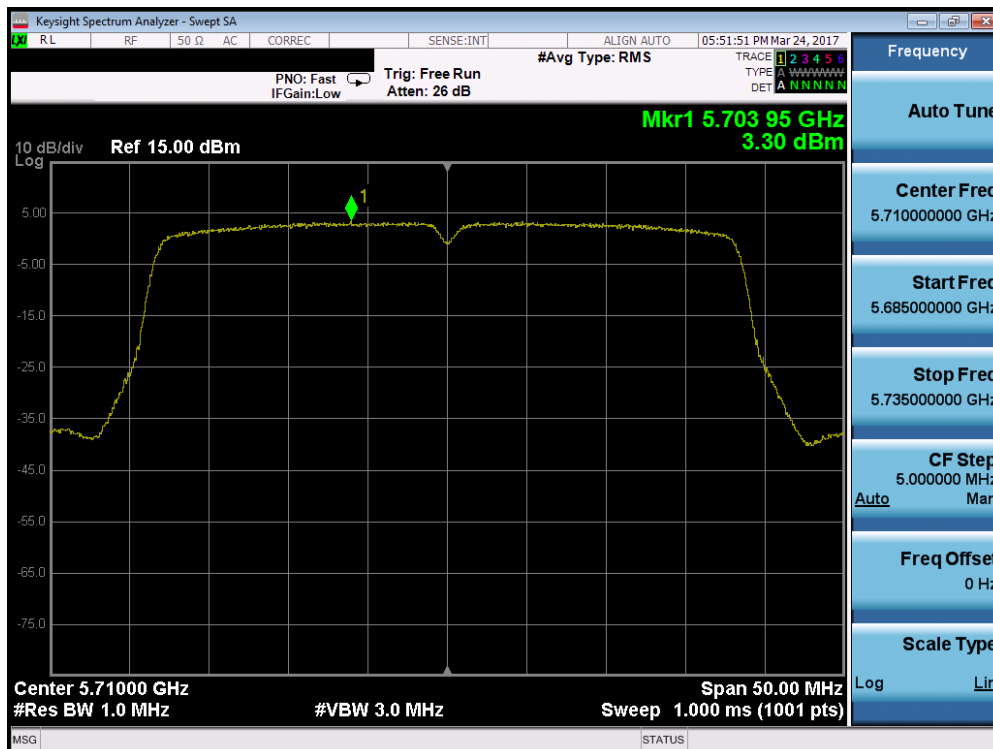


Plot 7-163. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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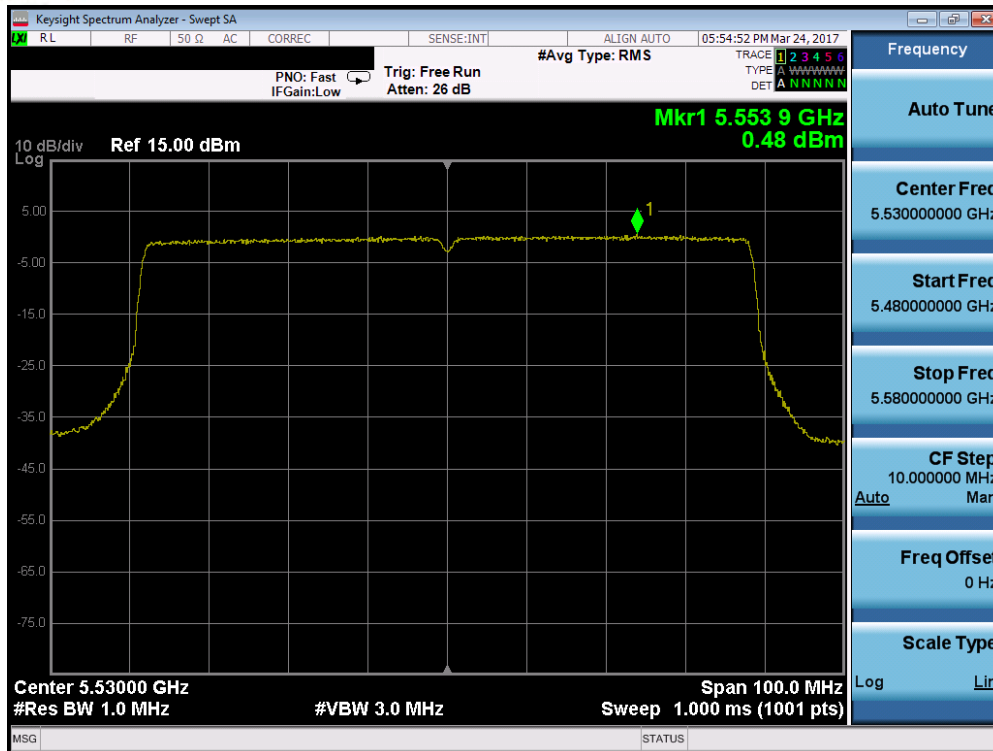


Plot 7-164. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

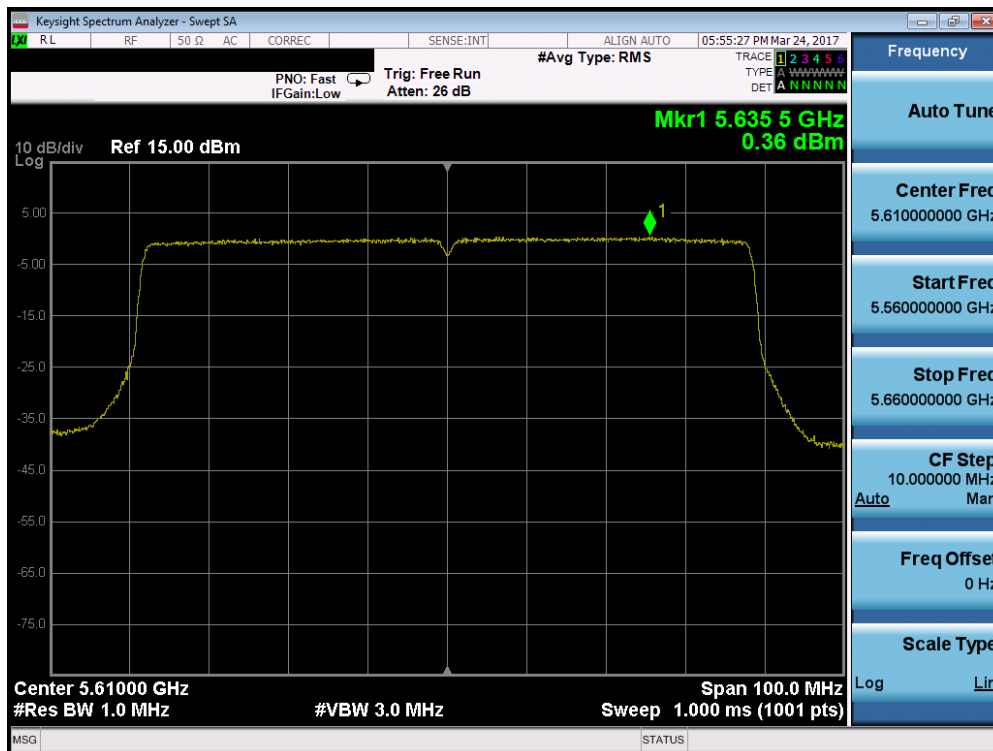


Plot 7-165. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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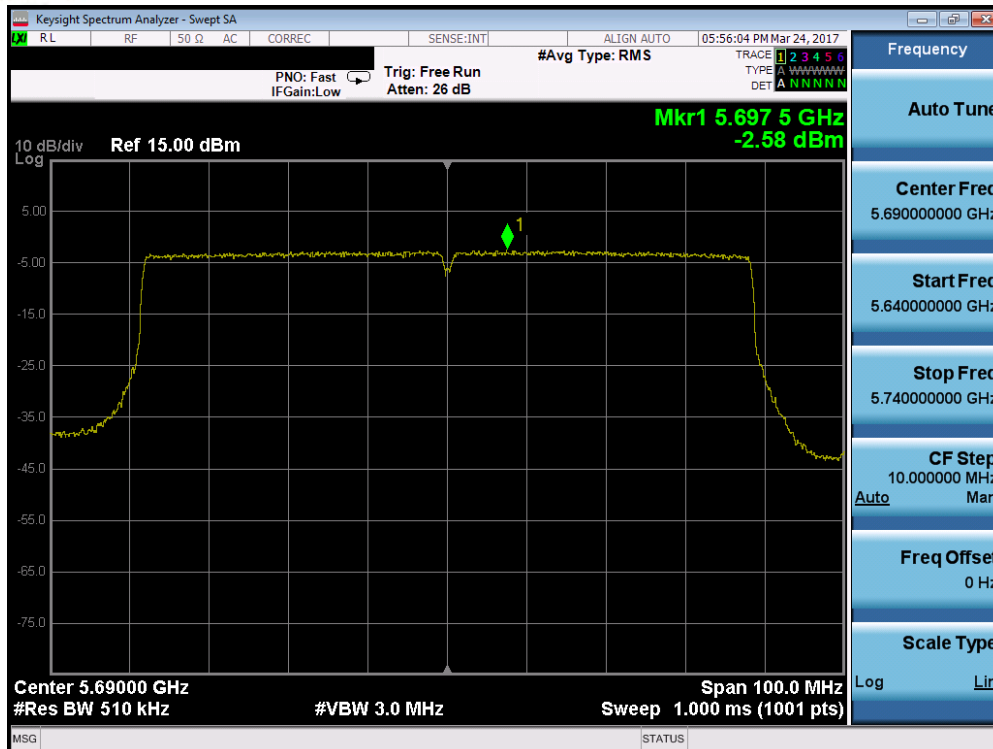


Plot 7-166. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)



Plot 7-167. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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Plot 7-168. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Directional Gain [dBi]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Antenna-3 Power Density [dBm]	Antenna-4 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Adjusted Limit [dBm/MHz]	Margin [dB]	Pass / Fail
Band 2A	5260	52	n (20MHz)	6.5/7.2 (MCS0)	9.19	0.87	0.69	0.43	1.33	6.86	11.0	7.81	-0.95	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	9.19	0.55	0.59	0.40	1.15	6.70	11.0	7.81	-1.11	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	9.19	0.51	1.03	0.15	0.56	6.59	11.0	7.81	-1.22	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	9.19	0.94	0.54	0.85	1.19	6.91	11.0	7.81	-0.90	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	9.19	0.99	0.87	0.52	0.81	6.82	11.0	7.81	-0.99	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	9.19	1.37	1.15	0.99	1.24	7.21	11.0	7.81	-0.60	Pass
Band 2C	5500	100	n (20MHz)	6.5/7.2 (MCS0)	9.40	0.01	0.34	0.34	0.79	6.40	11.0	7.60	-1.20	Pass
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	9.40	0.25	-0.28	-0.13	0.70	6.17	11.0	7.60	-1.43	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	9.48	0.26	0.12	0.14	0.55	6.29	11.0	7.52	-1.23	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	9.40	0.56	1.04	1.28	1.20	7.05	11.0	7.60	-0.55	Pass
	5590	118	n (40MHz)	13.5/15 (MCS0)	9.40	0.81	0.97	0.99	1.62	7.13	11.0	7.60	-0.47	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	9.48	1.00	0.94	1.01	1.26	7.07	11.0	7.52	-0.45	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	9.40	1.02	1.15	0.96	1.33	7.14	11.0	7.60	-0.46	Pass
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	9.40	1.18	0.87	1.09	1.42	7.17	11.0	7.60	-0.43	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	9.48	-1.98	-1.67	-1.73	-1.32	4.35	11.0	7.52	-3.17	Pass

Table 7-27. Bands 2A & 2C MIMO Conducted Power Spectral Density Measurements

Note:

Per KDB 662911 v02r01 Section E)2), the power spectral density at all antennas were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per KDB 662911 v02r01, Section F)2), the directional gain is calculated using the following formula, where G_n is the gain of the n th antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

The Power Density limits were then adjusted using the following formula:

$$\text{Max permissible power density} = [6 - (\text{Directional gain})]$$

Sample MIMO Calculation:

At 5260MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 0.87 dBm for Antenna-1, 0.69 dBm for Antenna-2, 0.43 dBm for Antenna-3 and 1.33 dBm for Antenna-4.

$$\text{Antenna 1} + \text{Antenna 2} + \text{Antenna 3} + \text{Antenna 4} = \text{MIMO}$$

$$(0.87 \text{ dBm} + 0.69 \text{ dBm} + 0.43 \text{ dBm} + 1.33 \text{ dBm}) = (1.22 \text{ mW} + 1.17 \text{ mW} + 1.10 \text{ mW} + 1.36 \text{ mW}) = 4.85 \text{ mW} = 6.86 \text{ dBm}$$

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7.5 Frequency Stability

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 120 VAC

VOLTAGE (%)	POWER (VAC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	120	+ 20 (Ref)	5260012899	0	0.00000000
100 %		- 30	5260013432	-532	-0.00001012
100 %		- 20	5260117891	-104,991	-0.00199603
100 %		- 10	5260028358	-15,459	-0.00029389
100 %		0	5260027182	-14,283	-0.00027154
100 %		+ 10	5260013261	-362	-0.00000688
100 %		+ 20	5260021884	-8,985	-0.00017082
100 %		+ 30	5260021774	-8,875	-0.00016873
100 %		+ 40	5260025011	-12,112	-0.00023026
100 %		+ 50	5260038574	-25,675	-0.00048811
115 %	138	+ 20	5260027571	-14,672	-0.00027893
85 %	102	+ 20	5260018443	-5,544	-0.00010539

Table 7-28. Frequency Stability Measurements for UNII Band 2A (Ch. 52)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 120 VAC

VOLTAGE (%)	POWER (VAC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	120	+ 20 (Ref)	5500023687	0	0.00000000
100 %		- 30	5500012322	11,366	0.00020665
100 %		- 20	5500106191	-82,503	-0.00150006
100 %		- 10	5500017247	6,440	0.00011710
100 %		0	5500016071	7,616	0.00013847
100 %		+ 10	5500012151	11,536	0.00020975
100 %		+ 20	5500030771	-7,084	-0.00012880
100 %		+ 30	5500011651	12,036	0.00021884
100 %		+ 40	5500014207	9,480	0.00017237
100 %		+ 50	5500017463	6,224	0.00011317
115 %	138	+ 20	5500016469	7,218	0.00013124
85 %	102	+ 20	5500017212	6,475	0.00011773

Table 7-29. Frequency Stability Measurements for UNII Band 2C (Ch. 100)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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7.6 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in KDB 789033 D02 v01r04, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.25-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-30 per Section 15.209.

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-30. Radiated Limits

Test Procedures Used

KDB 789033 D02 v01r04 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

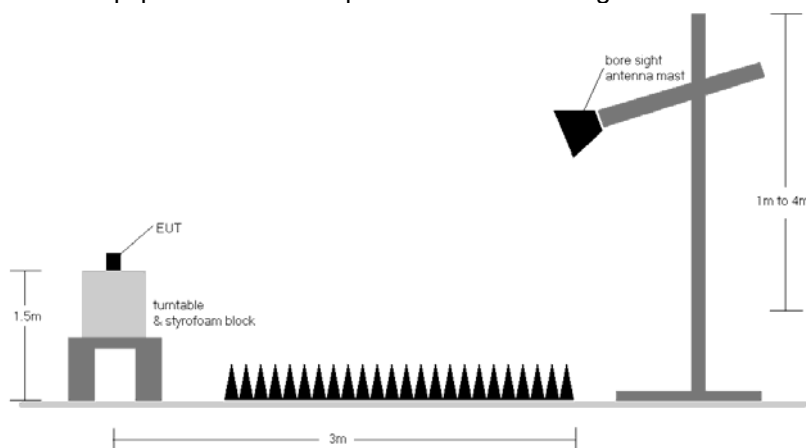


Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

1. All radiated spurious emissions levels were measured in a radiated test setup per the guidance of KDB 789033 D02 v01r04 Section G.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 7-30.
3. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-30. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. This unit was tested while powered by a DC power source.
6. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
7. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
8. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section. Rohde & Schwarz EMC32, Version 9.15.00 automated test software was used to perform the Radiated Spurious Emissions Pre-Scan testing.
10. The “-” shown in the following RSE tables are used to denote a noise floor measurement.

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Sample Calculations

Determining Spurious Emissions Levels

- o Field Strength Level $[\text{dB}\mu\text{V/m}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- o $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}]$
- o $\text{Margin} [\text{dB}] = \text{Field Strength Level} [\text{dB}\mu\text{V/m}] - \text{Limit} [\text{dB}\mu\text{V/m}]$

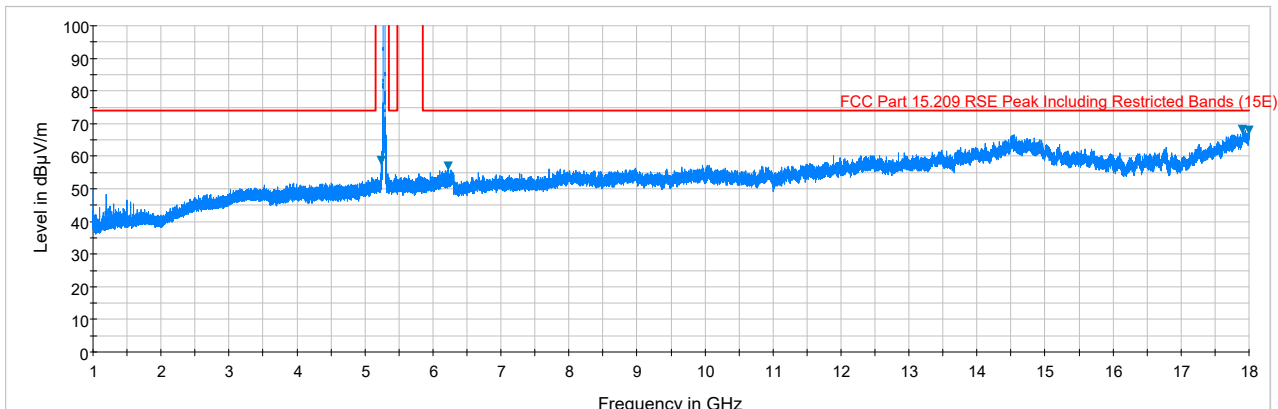
Radiated Band Edge Measurement Offset

- o The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:

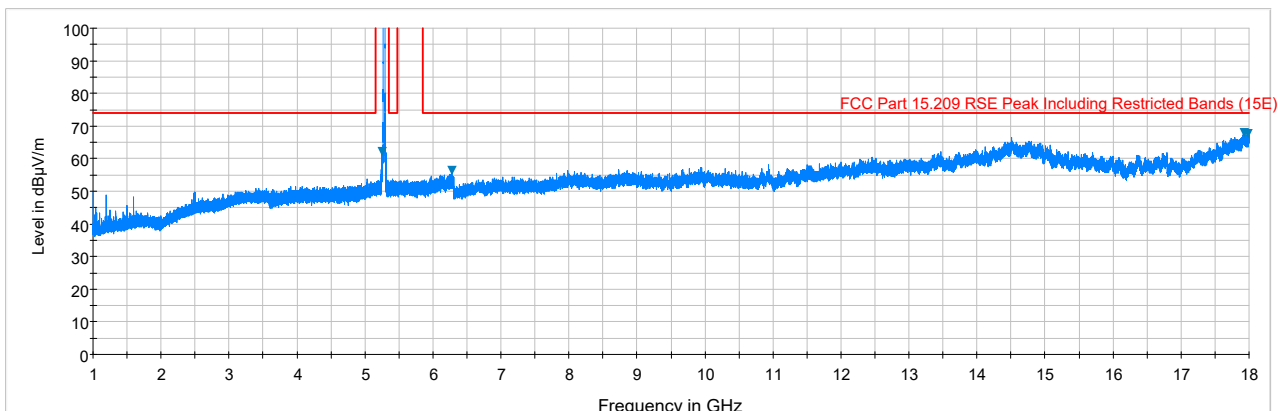
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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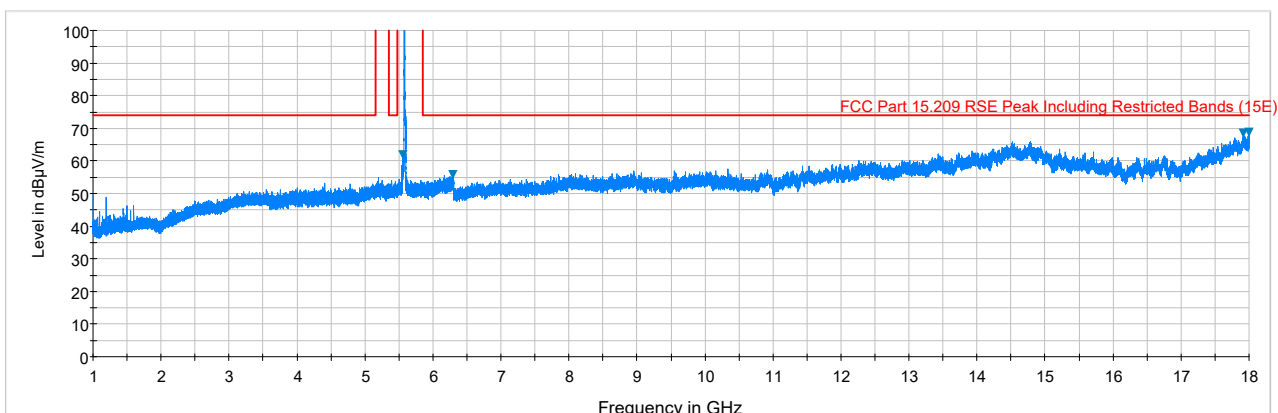
7.6.1 Antenna-1 Radiated Spurious Emission Measurements



Plot 7-169. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

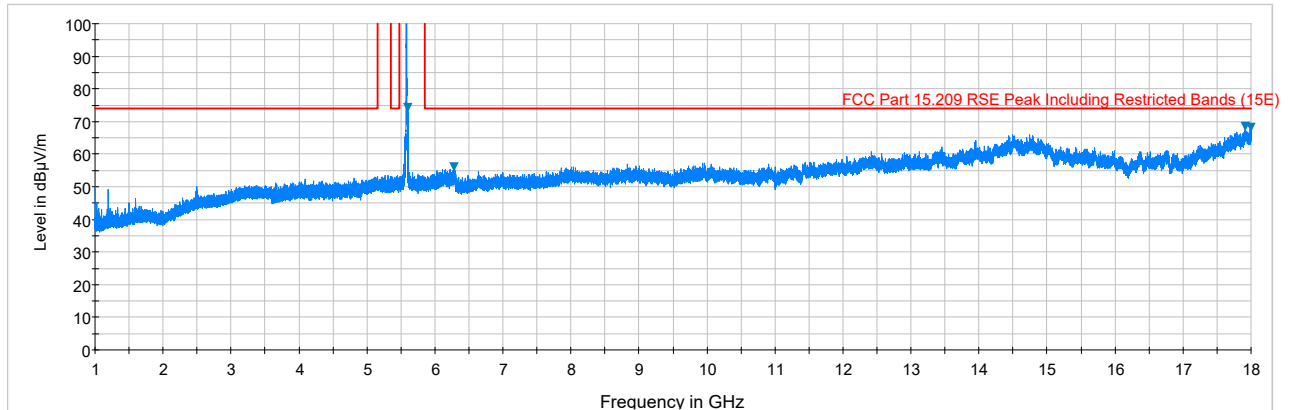


Plot 7-170. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)



Plot 7-171. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. H)

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Plot 7-172. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. V)

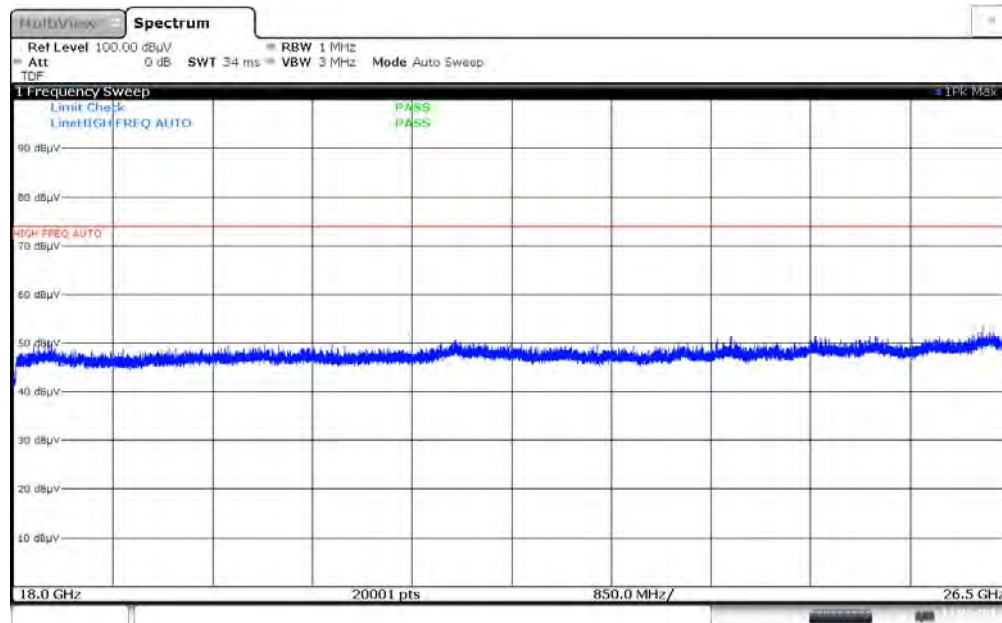
FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
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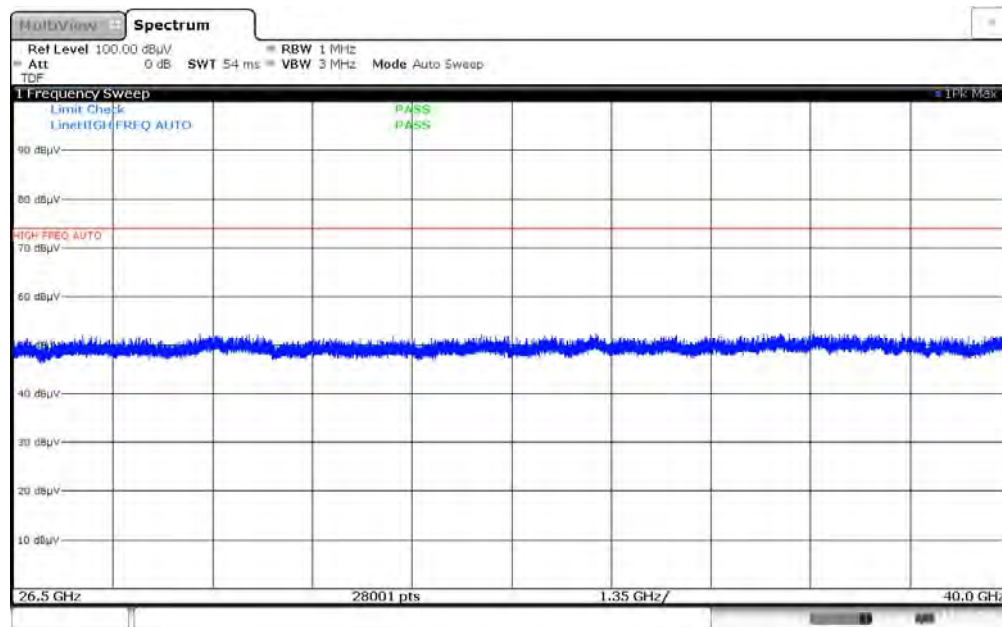
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Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz) §15.209



21:45:25 17.05.2017

Plot 7-173. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a – Ant. Pol. H)



23:06:39 17.05.2017

Plot 7-174. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a – Ant. Pol. H)

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Antenna-1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	-	-	-59.70	12.59	-9.54	50.35	68.20	-17.85
* 15780.00	Average	V	-	-	-73.34	16.20	-9.54	40.31	53.98	-13.67
* 15780.00	Peak	V	-	-	-59.14	16.20	-9.54	54.51	73.98	-19.47
* 21040.00	Average	V	-	-	-70.77	8.10	-9.54	34.79	53.98	-19.19
* 21040.00	Peak	V	-	-	-61.12	8.10	-9.54	44.44	73.98	-29.54
26300.00	Peak	V	-	-	-58.66	8.76	-9.54	47.56	68.20	-20.64

Table 7-31. Radiated Measurements

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	-	-	-59.43	12.54	-9.54	50.57	68.20	-17.63
* 15840.00	Average	V	-	-	-73.02	16.18	-9.54	40.62	53.98	-13.36
* 15840.00	Peak	V	-	-	-58.34	16.18	-9.54	55.30	73.98	-18.68
* 21120.00	Average	V	-	-	-70.81	8.09	-9.54	34.73	53.98	-19.25
* 21120.00	Peak	V	-	-	-59.44	8.09	-9.54	46.10	73.98	-27.88
26400.00	Peak	V	-	-	-58.10	8.99	-9.54	48.35	68.20	-19.85

Table 7-32. Radiated Measurements

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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	10640.00	Average	V	-	-	-71.29	12.88	-9.54	39.05	53.98	-14.93
*	10640.00	Peak	V	-	-	-60.16	12.88	-9.54	50.18	73.98	-23.80
*	15960.00	Average	V	-	-	-73.12	16.29	-9.54	40.63	53.98	-13.35
*	15960.00	Peak	V	-	-	-58.19	16.29	-9.54	55.56	73.98	-18.42
*	21280.00	Average	V	-	-	-70.66	8.07	-9.54	34.87	53.98	-19.11
*	21280.00	Peak	V	-	-	-59.44	8.07	-9.54	46.09	73.98	-27.89
	26600.00	Peak	V	-	-	-50.32	-8.30	-9.54	38.84	68.20	-29.36

Table 7-33. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
	11000.00	Average	V	-	-	-71.60	12.79	-9.54	38.65	53.98	-15.33
	11000.00	Peak	V	-	-	-59.51	12.79	-9.54	50.74	73.98	-23.24
	16500.00	Peak	V	-	-	-58.23	15.58	-9.54	54.81	68.20	-13.39
	22000.00	Peak	V	-	-	-58.81	8.35	-9.54	46.99	68.20	-21.21
	27500.00	Peak	V	-	-	-49.34	-8.93	-9.54	39.19	68.20	-29.01

Table 7-34. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	V	-	-	-71.68	12.99	-9.54	38.76	53.98	-15.22
* 11200.00	Peak	V	-	-	-59.56	12.99	-9.54	50.88	73.98	-23.10
16800.00	Peak	V	-	-	-58.88	16.19	-9.54	54.77	68.20	-13.43
* 22400.00	Average	V	-	-	-70.14	8.20	-9.54	35.52	53.98	-18.46
* 22400.00	Peak	V	-	-	-59.61	8.20	-9.54	46.05	73.98	-27.93
28000.00	Peak	V	-	-	-49.22	-9.24	-9.54	39.00	68.20	-29.20

Table 7-35. Radiated Measurements

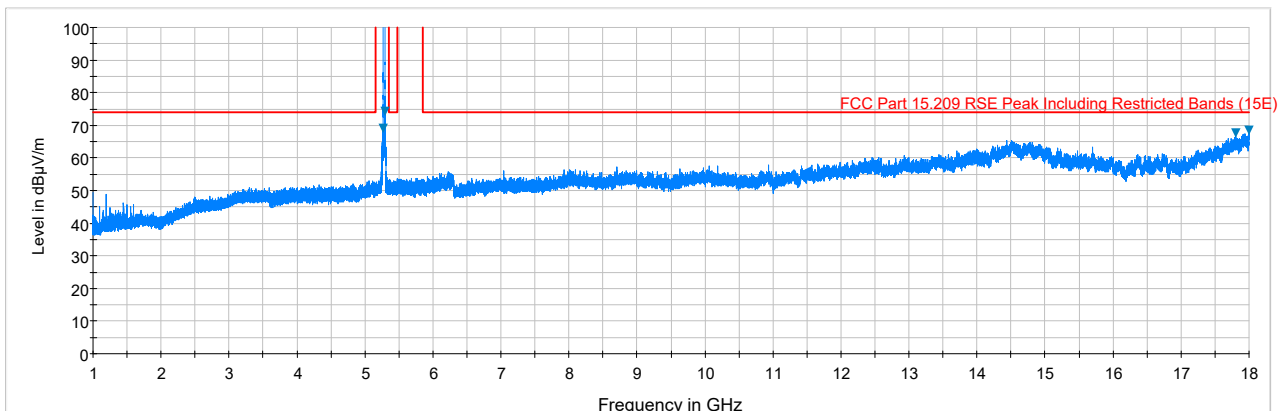
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	V	-	-	-71.05	14.12	-9.54	40.53	53.98	-13.45
* 11440.00	Peak	V	-	-	-59.11	14.12	-9.54	52.47	73.98	-21.51
17160.00	Peak	V	-	-	-61.43	19.30	-9.54	55.33	68.20	-12.87
* 22880.00	Average	V	-	-	-71.24	8.29	-9.54	34.50	53.98	-19.48
* 22880.00	Peak	V	-	-	-60.53	8.29	-9.54	45.21	73.98	-28.77
28600.00	Peak	V	-	-	-49.69	-9.03	-9.54	38.74	68.20	-29.46

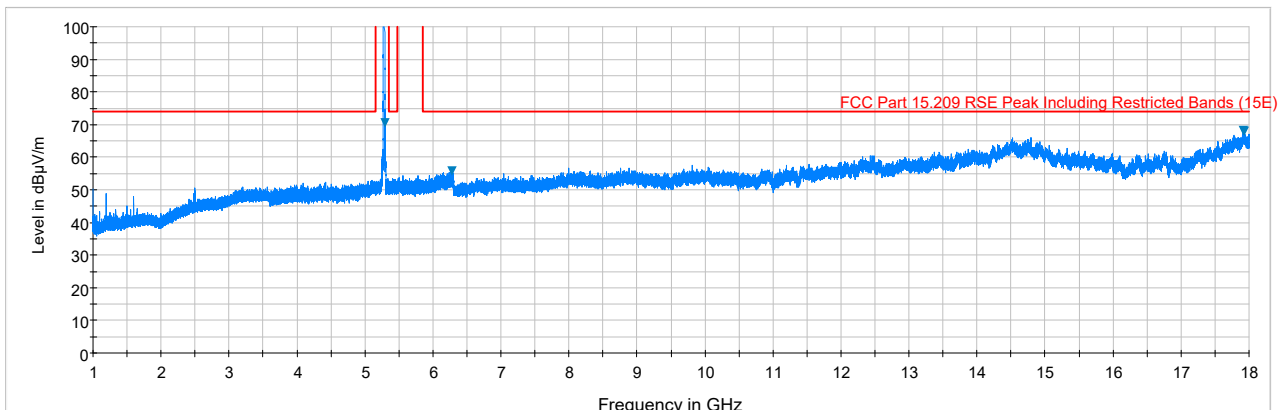
Table 7-36. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
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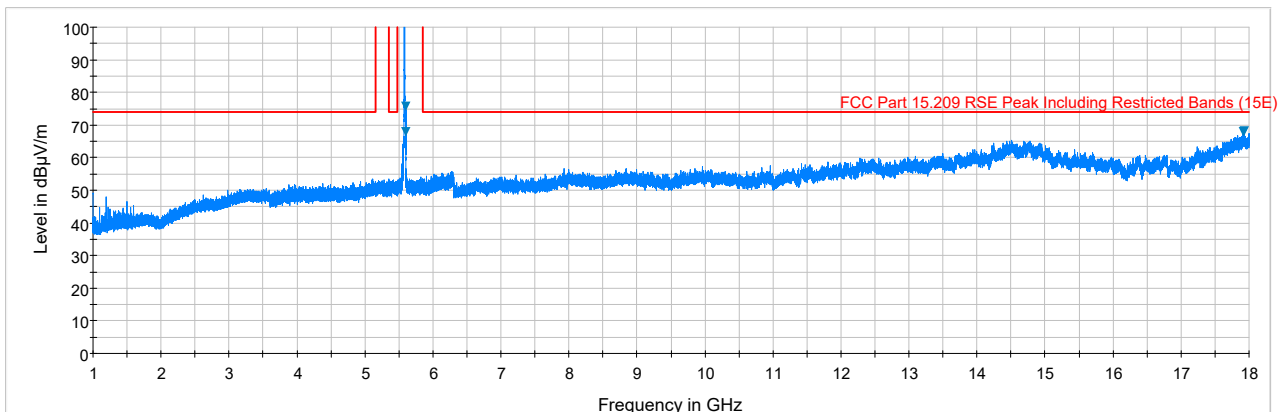
7.6.2 Antenna-2 Radiated Spurious Emission Measurements



Plot 7-175. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

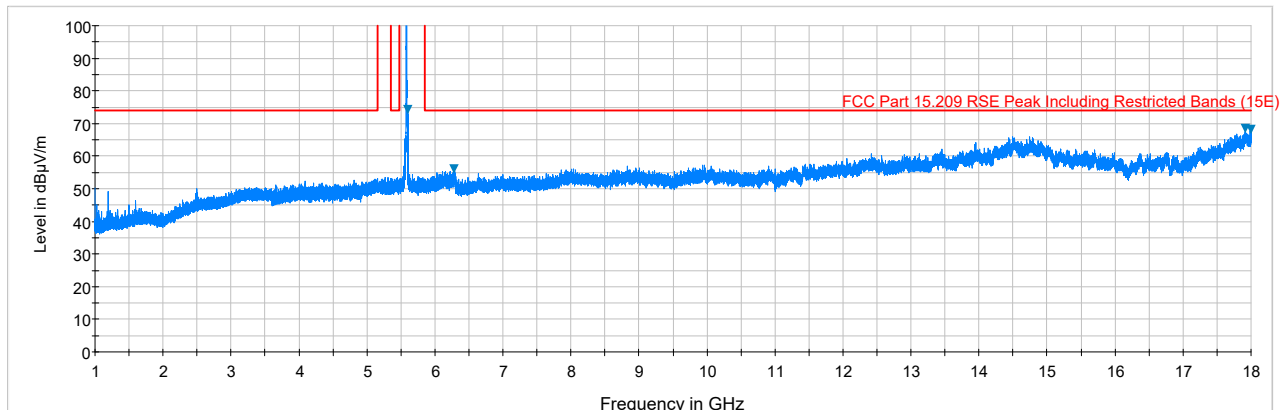


Plot 7-176. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)



Plot 7-177. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. H)

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Plot 7-178. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. V)

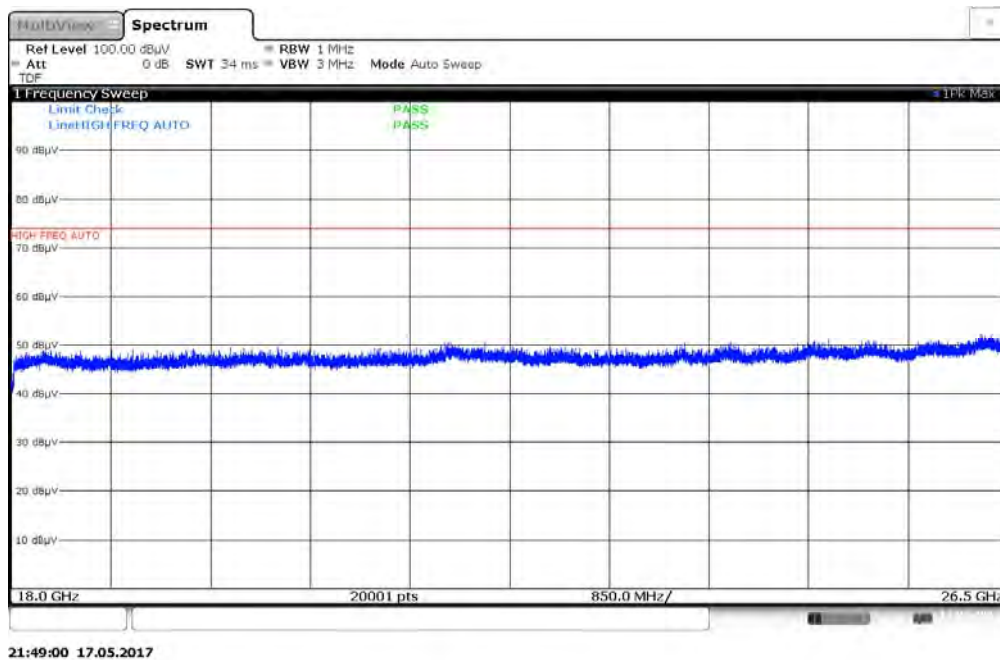
FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 134 of 227	

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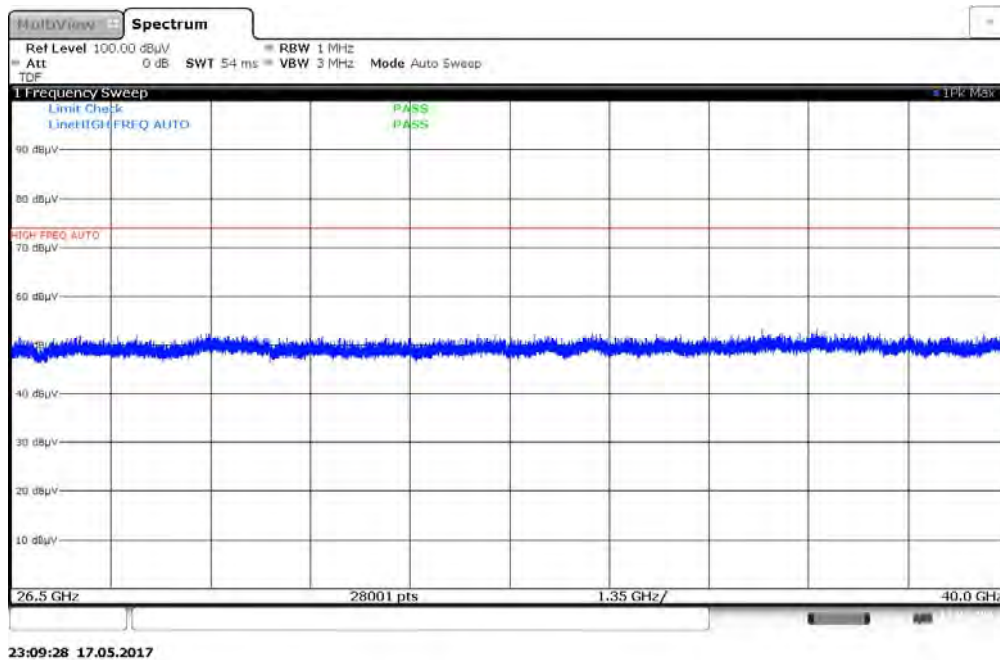
V 6.2
01/09/2016

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Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz) §15.209



Plot 7-179. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a – Ant. Pol. H)



Plot 7-180. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a – Ant. Pol. H)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 135 of 227

Antenna-2 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	-	-	-58.42	12.59	0.00	61.17	68.20	-7.03
* 15780.00	Average	V	-	-	-73.13	16.20	0.00	50.07	53.98	-3.91
* 15780.00	Peak	V	-	-	-58.12	16.20	0.00	65.08	73.98	-8.90
* 21040.00	Average	V	-	-	-70.74	8.10	-9.54	34.82	53.98	-19.16
* 21040.00	Peak	V	-	-	-60.22	8.10	-9.54	45.34	73.98	-28.64
26300.00	Peak	V	-	-	-57.61	8.76	-9.54	48.61	68.20	-19.59

Table 7-37. Radiated Measurements

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	-	-	-59.36	12.54	-9.54	50.64	68.20	-17.56
* 15840.00	Average	V	-	-	-73.05	16.18	-9.54	40.59	53.98	-13.39
* 15840.00	Peak	V	-	-	-58.50	16.18	-9.54	55.14	73.98	-18.84
* 21120.00	Average	V	-	-	-70.90	8.09	-9.54	34.64	53.98	-19.34
* 21120.00	Peak	V	-	-	-59.41	8.09	-9.54	46.13	73.98	-27.85
26400.00	Peak	V	-	-	-58.88	8.99	-9.54	47.57	68.20	-20.63

Table 7-38. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 136 of 227

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	V	-	-	-71.20	12.88	-9.54	39.14	53.98	-14.84
* 10640.00	Peak	V	-	-	-58.89	12.88	-9.54	51.45	73.98	-22.53
* 15960.00	Average	V	-	-	-72.91	16.29	-9.54	40.84	53.98	-13.14
* 15960.00	Peak	V	-	-	-57.93	16.29	-9.54	55.82	73.98	-18.16
* 21280.00	Average	V	-	-	-70.60	8.07	-9.54	34.93	53.98	-19.05
* 21280.00	Peak	V	-	-	-59.42	8.07	-9.54	46.11	73.98	-27.87
26600.00	Peak	V	-	-	-50.22	-8.30	-9.54	38.94	68.20	-29.26

Table 7-39. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	-	-	-71.52	12.79	-9.54	38.73	53.98	-15.25
* 11000.00	Peak	V	-	-	-60.25	12.79	-9.54	50.00	73.98	-23.98
16500.00	Peak	V	-	-	-58.62	15.58	-9.54	54.42	68.20	-13.78
22000.00	Peak	V	-	-	-58.84	8.35	-9.54	46.96	68.20	-21.24
27500.00	Peak	V	-	-	-49.37	-8.93	-9.54	39.16	68.20	-29.04

Table 7-40. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 137 of 227

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5600MHz
Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	V	-	-	-71.43	12.99	-9.54	39.01	53.98	-14.97
* 11200.00	Peak	V	-	-	-60.23	12.99	-9.54	50.21	73.98	-23.77
16800.00	Peak	V	-	-	-58.14	16.19	-9.54	55.51	68.20	-12.69
* 22400.00	Average	V	-	-	-70.21	8.20	-9.54	35.45	53.98	-18.53
* 22400.00	Peak	V	-	-	-59.61	8.20	-9.54	46.05	73.98	-27.93
28000.00	Peak	V	-	-	-49.35	-9.24	-9.54	38.87	68.20	-29.33

Table 7-41. Radiated Measurements

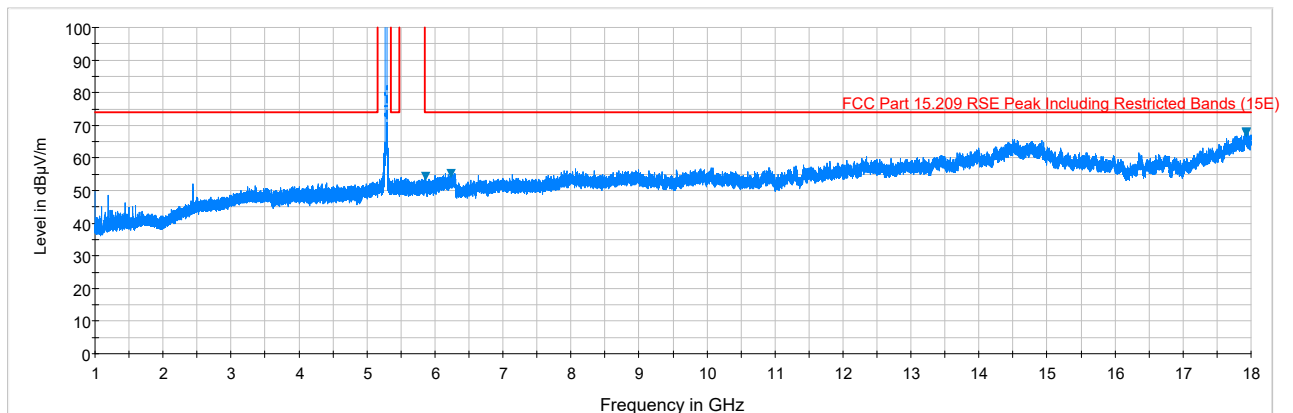
Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720
Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	V	-	-	-70.83	14.12	-9.54	40.75	53.98	-13.23
* 11440.00	Peak	V	-	-	-60.05	14.12	-9.54	51.53	73.98	-22.45
17160.00	Peak	V	-	-	-61.12	19.30	-9.54	55.64	68.20	-12.56
* 22880.00	Average	V	-	-	-71.28	8.29	-9.54	34.46	53.98	-19.52
* 22880.00	Peak	V	-	-	-60.26	8.29	-9.54	45.48	73.98	-28.50
28600.00	Peak	V	-	-	-49.27	-9.03	-9.54	39.16	68.20	-29.04

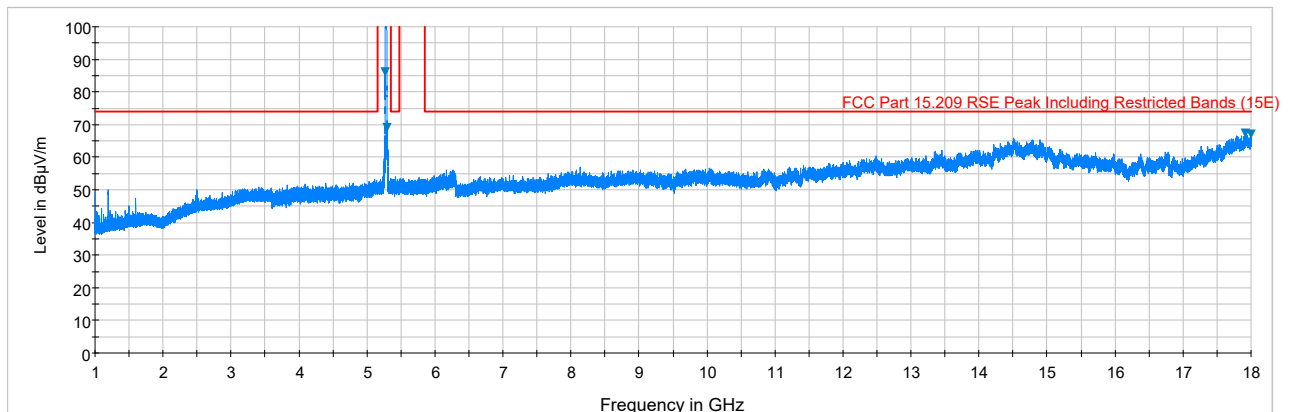
Table 7-42. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 138 of 227

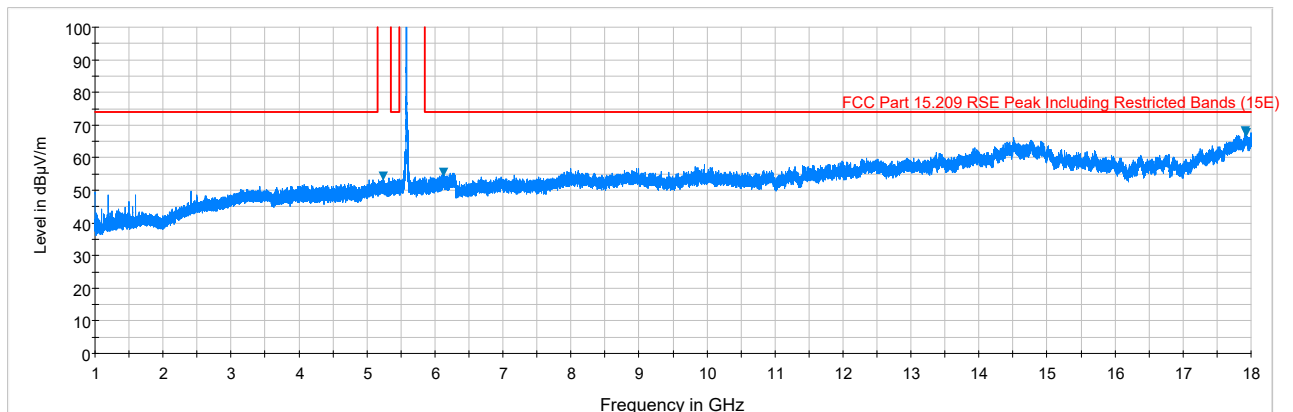
7.6.3 Antenna-3 Radiated Spurious Emission Measurements



Plot 7-181. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

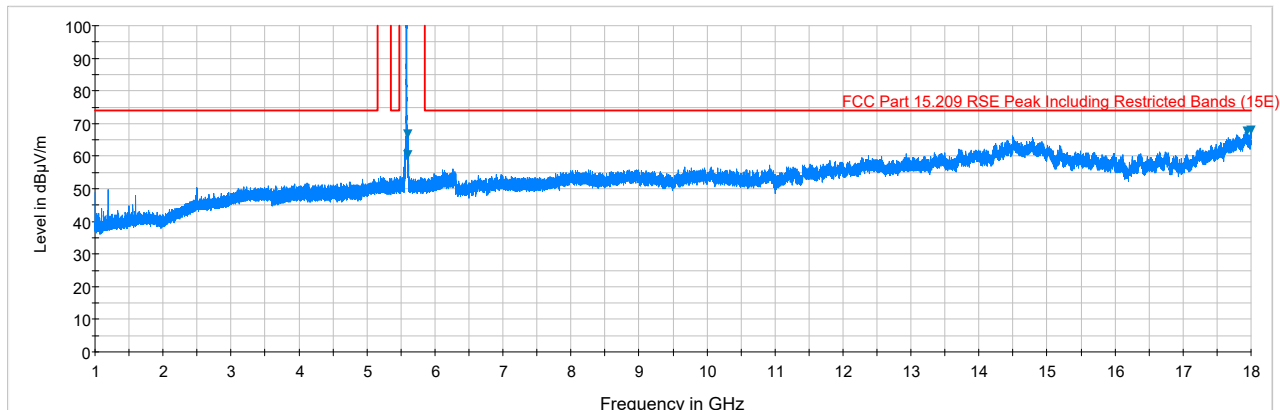


Plot 7-182. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)



Plot 7-183. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. H)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 139 of 227	



Plot 7-184. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. V)

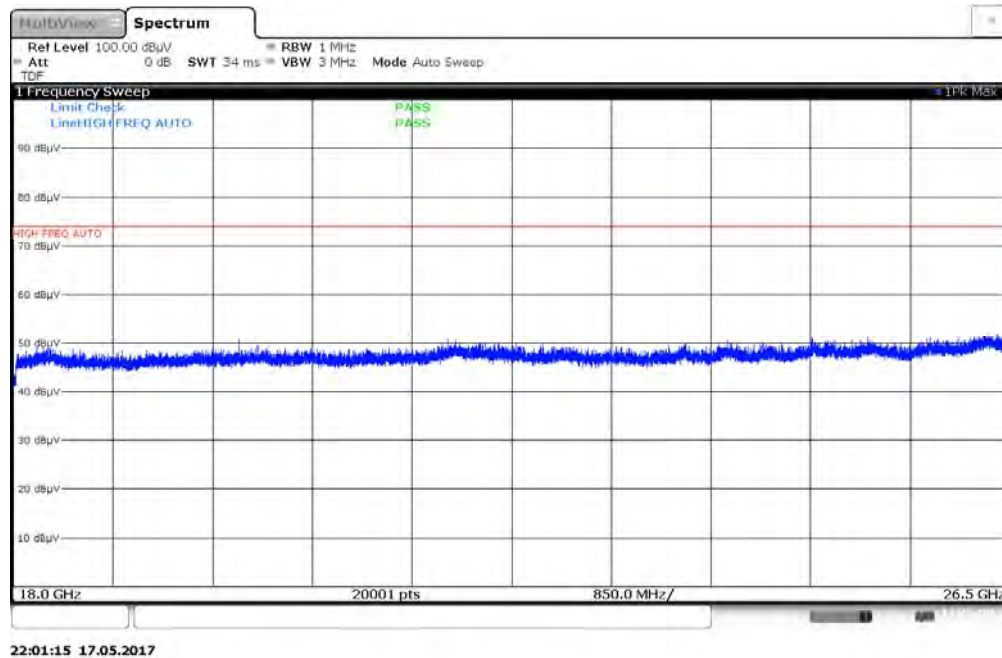
FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point			Page 140 of 227

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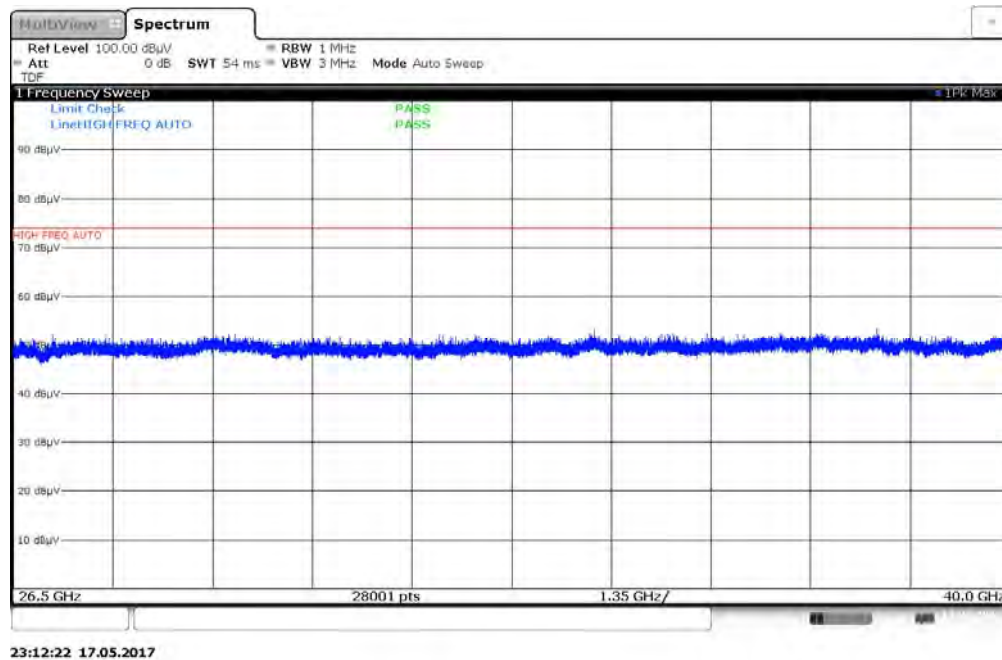
V 6.2
01/09/2016

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Antenna-3 Radiated Spurious Emissions Measurements (Above 18GHz) §15.209



Plot 7-185. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a – Ant. Pol. H)



Plot 7-186. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a – Ant. Pol. H)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 141 of 227

Antenna-3 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	-	-	-59.63	12.59	-9.54	50.42	68.20	-17.78
* 15780.00	Average	V	-	-	-73.32	16.20	-9.54	40.33	53.98	-13.65
* 15780.00	Peak	V	-	-	-59.11	16.20	-9.54	54.54	73.98	-19.44
* 21040.00	Average	V	-	-	-70.67	8.10	-9.54	34.89	53.98	-19.09
* 21040.00	Peak	V	-	-	-61.11	8.10	-9.54	44.45	73.98	-29.53
26300.00	Peak	V	-	-	-58.64	8.76	-9.54	47.58	68.20	-20.62

Table 7-43. Radiated Measurements

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	-	-	-59.20	12.54	-9.54	50.80	68.20	-17.40
* 15840.00	Average	V	-	-	-73.03	16.18	-9.54	40.61	53.98	-13.37
* 15840.00	Peak	V	-	-	-58.83	16.18	-9.54	54.81	73.98	-19.17
* 21120.00	Average	V	-	-	-70.88	8.09	-9.54	34.66	53.98	-19.32
* 21120.00	Peak	V	-	-	-59.54	8.09	-9.54	46.00	73.98	-27.98
26400.00	Peak	V	-	-	-58.21	8.99	-9.54	48.24	68.20	-19.96

Table 7-44. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 142 of 227

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5320MHz
Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	V	-	-	-71.37	12.88	-9.54	38.97	53.98	-15.01
* 10640.00	Peak	V	-	-	-59.55	12.88	-9.54	50.79	73.98	-23.19
* 15960.00	Average	V	-	-	-74.15	16.29	-9.54	39.60	53.98	-14.38
* 15960.00	Peak	V	-	-	-58.85	16.29	-9.54	54.90	73.98	-19.08
* 21280.00	Average	V	-	-	-70.64	8.07	-9.54	34.89	53.98	-19.09
* 21280.00	Peak	V	-	-	-59.47	8.07	-9.54	46.06	73.98	-27.92
26600.00	Peak	V	-	-	-50.34	-8.30	-9.54	38.82	68.20	-29.38

Table 7-45. Radiated Measurements

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	-	-	-71.53	12.79	-9.54	38.72	53.98	-15.26
* 11000.00	Peak	V	-	-	-60.80	12.79	-9.54	49.45	73.98	-24.53
16500.00	Peak	V	-	-	-59.71	15.58	-9.54	53.33	68.20	-14.87
22000.00	Peak	V	-	-	-58.88	8.35	-9.54	46.92	68.20	-21.28
27500.00	Peak	V	-	-	-49.37	-8.93	-9.54	39.16	68.20	-29.04

Table 7-46. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 143 of 227

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	V	-	-	-71.59	12.99	-9.54	38.85	53.98	-15.13
* 11200.00	Peak	V	-	-	-59.10	12.99	-9.54	51.34	73.98	-22.64
16800.00	Peak	V	-	-	-59.71	16.19	-9.54	53.94	68.20	-14.26
* 22400.00	Average	V	-	-	-70.10	8.20	-9.54	35.56	53.98	-18.42
* 22400.00	Peak	V	-	-	-59.67	8.20	-9.54	45.99	73.98	-27.99
28000.00	Peak	V	-	-	-49.27	-9.24	-9.54	38.95	68.20	-29.25

Table 7-47. Radiated Measurements

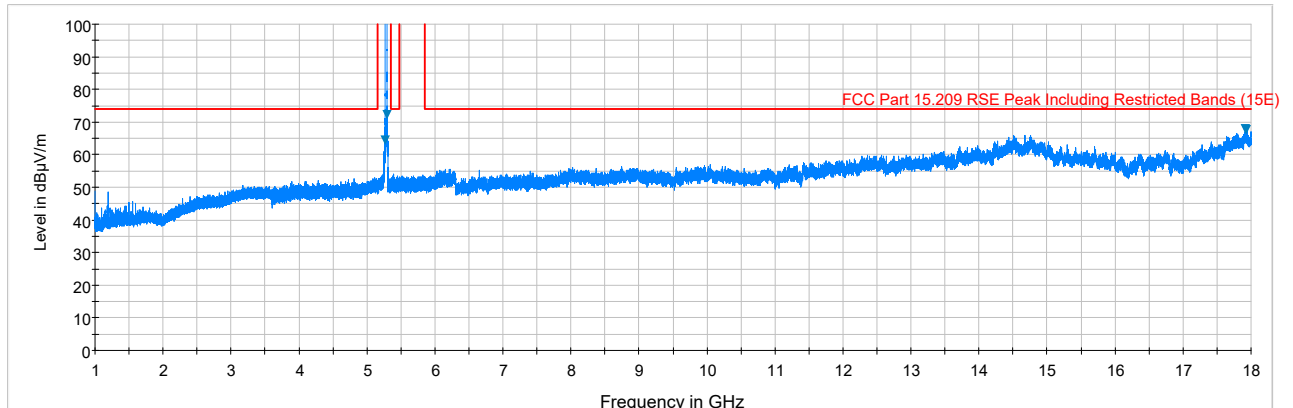
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	V	-	-	-71.03	14.12	-9.54	40.55	53.98	-13.43
* 11440.00	Peak	V	-	-	-59.97	14.12	-9.54	51.61	73.98	-22.37
17160.00	Peak	V	-	-	-61.11	19.30	-9.54	55.65	68.20	-12.55
* 22880.00	Average	V	-	-	-71.22	8.29	-9.54	34.52	53.98	-19.46
* 22880.00	Peak	V	-	-	-60.42	8.29	-9.54	45.32	73.98	-28.66
28600.00	Peak	V	-	-	-49.61	-9.03	-9.54	38.82	68.20	-29.38

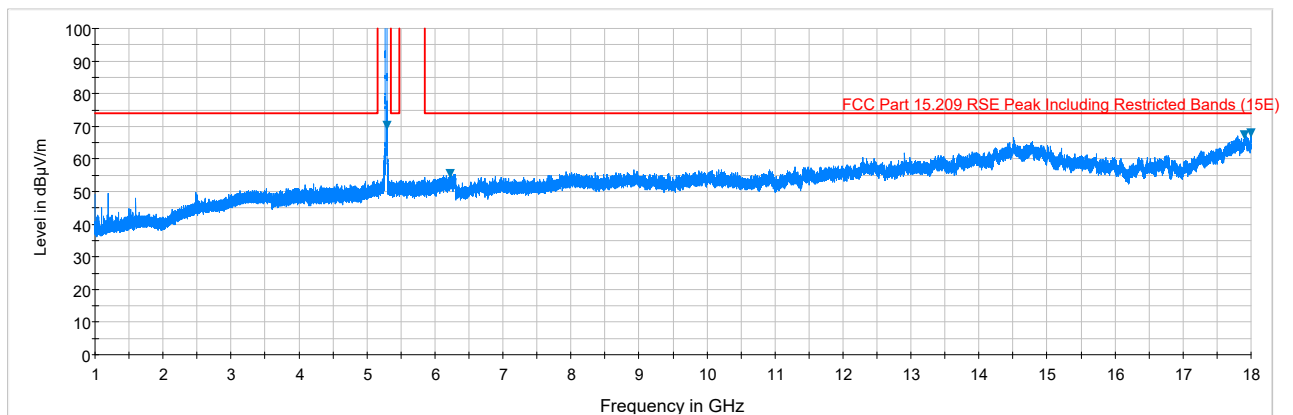
Table 7-48. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 144 of 227

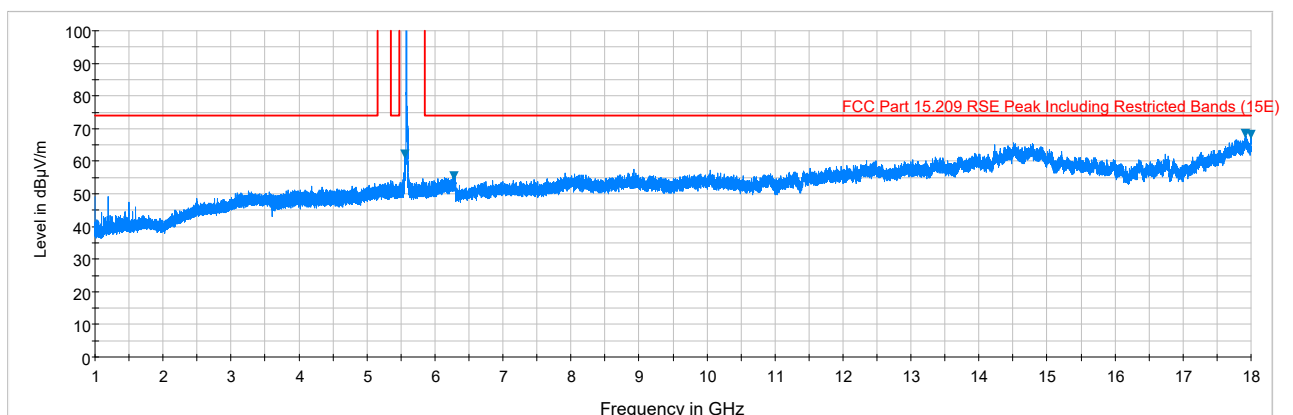
7.6.4 Antenna-4 Radiated Spurious Emission Measurements



Plot 7-187. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

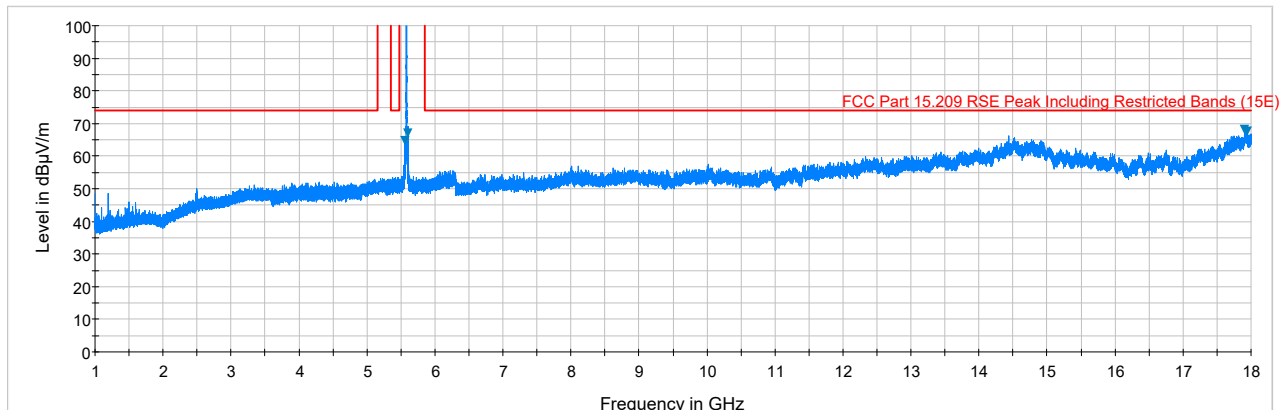


Plot 7-188. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)



Plot 7-189. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. H)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 145 of 227	



Plot 7-190. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. V)

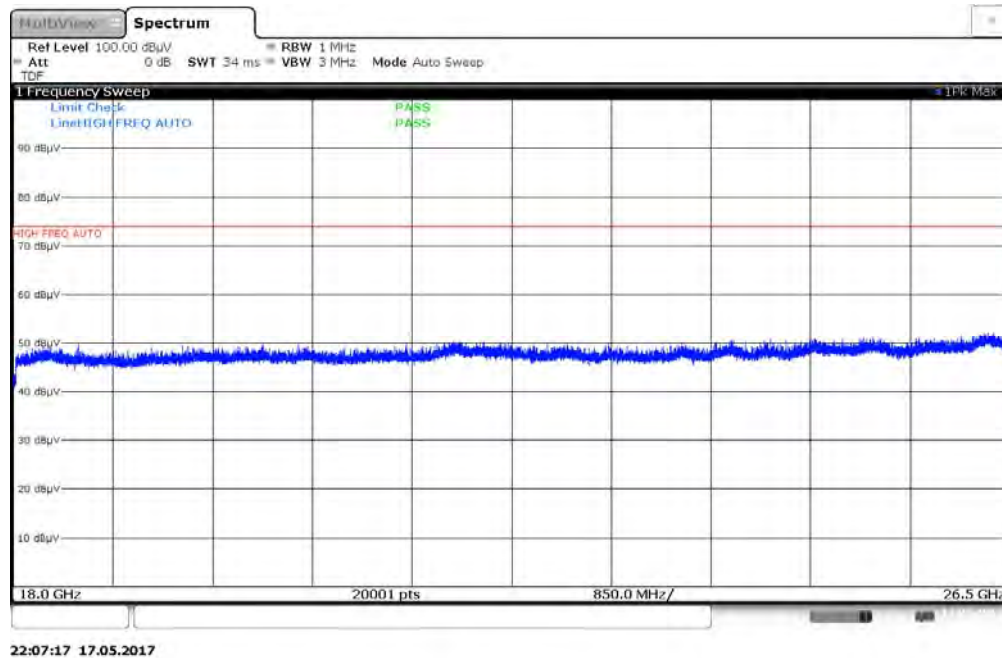
FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point			Page 146 of 227

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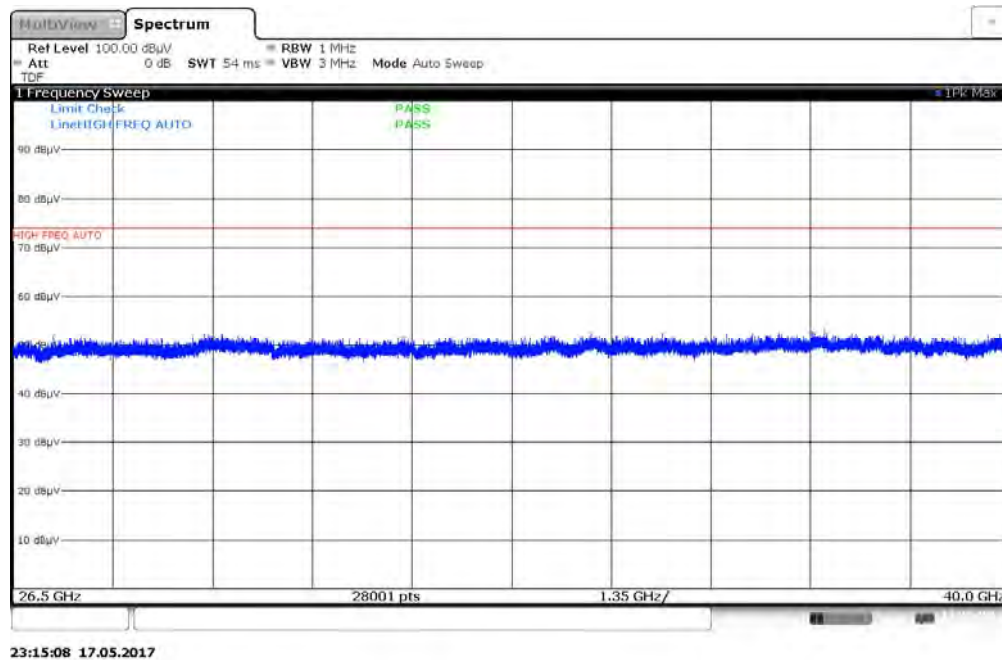
V 6.2
01/09/2016

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Antenna-4 Radiated Spurious Emissions Measurements (Above 18GHz) §15.209



Plot 7-191. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a – Ant. Pol. H)



Plot 7-192. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a – Ant. Pol. H)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 147 of 227

Antenna-4 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	-	-	-59.68	12.59	-9.54	50.37	68.20	-17.83
* 15780.00	Average	V	-	-	-73.24	16.20	-9.54	40.41	53.98	-13.57
* 15780.00	Peak	V	-	-	-58.13	16.20	-9.54	55.52	73.98	-18.46
* 21040.00	Average	V	-	-	-70.74	8.10	-9.54	34.82	53.98	-19.16
* 21040.00	Peak	V	-	-	-61.24	8.10	-9.54	44.32	73.98	-29.66
26300.00	Peak	V	-	-	-58.67	8.76	-9.54	47.55	68.20	-20.65

Table 7-49. Radiated Measurements

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5280MHz
Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	-	-	-59.73	12.54	-9.54	50.27	68.20	-17.93
* 15840.00	Average	V	-	-	-73.19	16.18	-9.54	40.45	53.98	-13.53
* 15840.00	Peak	V	-	-	-58.28	16.18	-9.54	55.36	73.98	-18.62
* 21120.00	Average	V	-	-	-70.64	8.09	-9.54	34.90	53.98	-19.08
* 21120.00	Peak	V	-	-	-59.48	8.09	-9.54	46.06	73.98	-27.92
26400.00	Peak	V	-	-	-58.21	8.99	-9.54	48.24	68.20	-19.96

Table 7-50. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 148 of 227

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	V	-	-	-71.19	12.88	-9.54	39.15	53.98	-14.83
* 10640.00	Peak	V	-	-	-58.93	12.88	-9.54	51.41	73.98	-22.57
* 15960.00	Average	V	-	-	-73.12	16.29	-9.54	40.63	53.98	-13.35
* 15960.00	Peak	V	-	-	-58.60	16.29	-9.54	55.15	73.98	-18.83
* 21280.00	Average	V	-	-	-70.61	8.07	-9.54	34.92	53.98	-19.06
* 21280.00	Peak	V	-	-	-59.47	8.07	-9.54	46.06	73.98	-27.92
26600.00	Peak	V	-	-	-50.31	-8.30	-9.54	38.85	68.20	-29.35

Table 7-51. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	-	-	-71.72	12.79	-9.54	38.53	53.98	-15.45
* 11000.00	Peak	V	-	-	-60.61	12.79	-9.54	49.64	73.98	-24.34
16500.00	Peak	V	-	-	-58.33	15.58	-9.54	54.71	68.20	-13.49
22000.00	Peak	V	-	-	-58.27	8.35	-9.54	47.53	68.20	-20.67

Table 7-52. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 149 of 227

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	V	-	-	-71.55	12.99	-9.54	38.89	53.98	-15.09
* 11200.00	Peak	V	-	-	-59.96	12.99	-9.54	50.48	73.98	-23.50
16800.00	Peak	V	-	-	-58.02	16.19	-9.54	55.63	68.20	-12.57
* 22400.00	Average	V	-	-	-69.67	8.20	-9.54	35.99	53.98	-17.99
* 22400.00	Peak	V	-	-	-59.76	8.20	-9.54	45.90	73.98	-28.08
28000.00	Peak	V	-	-	-49.24	-9.24	-9.54	38.98	68.20	-29.22

Table 7-53. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	V	-	-	-71.10	14.12	-9.54	40.48	53.98	-13.50
* 11440.00	Peak	V	-	-	-60.19	14.12	-9.54	51.39	73.98	-22.59
17160.00	Peak	V	-	-	-61.84	19.30	-9.54	54.92	68.20	-13.28
* 22880.00	Average	V	-	-	-71.22	8.29	-9.54	34.52	53.98	-19.46
* 22880.00	Peak	V	-	-	-60.57	8.29	-9.54	45.17	73.98	-28.81
28600.00	Peak	V	-	-	-49.87	-9.03	-9.54	38.56	68.20	-29.64

Table 7-54. Radiated Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 150 of 227

7.6.4 Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

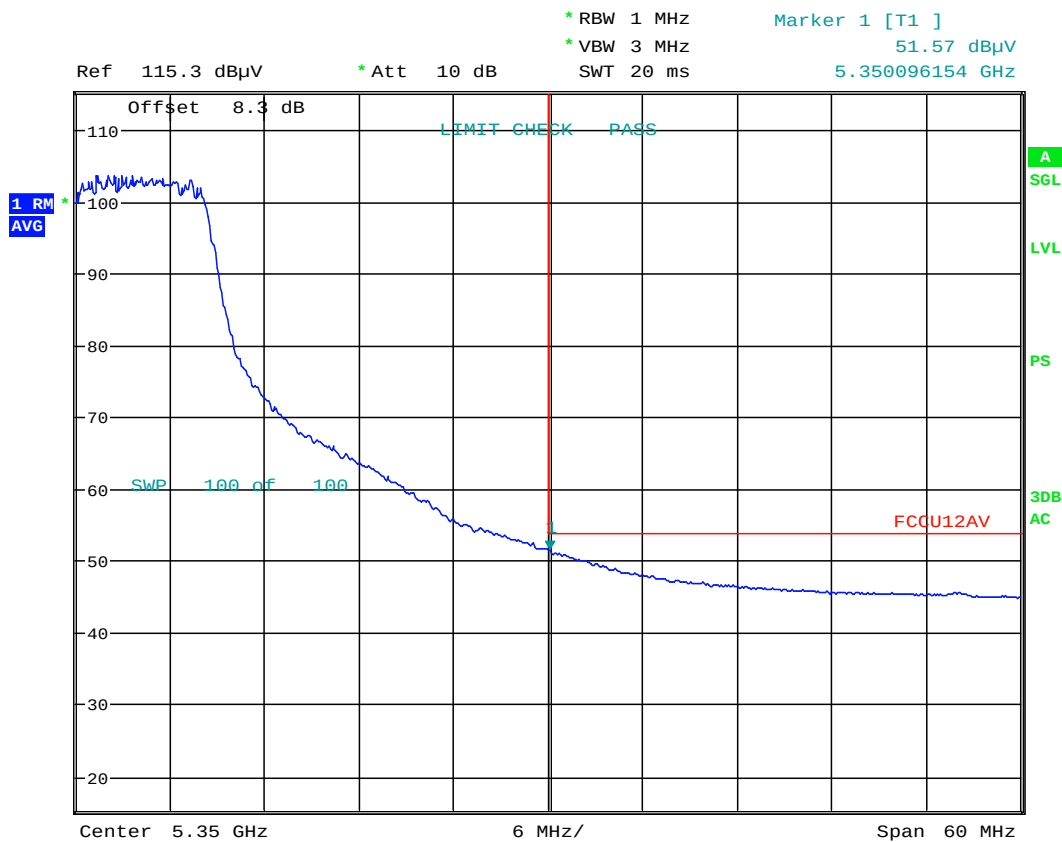
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



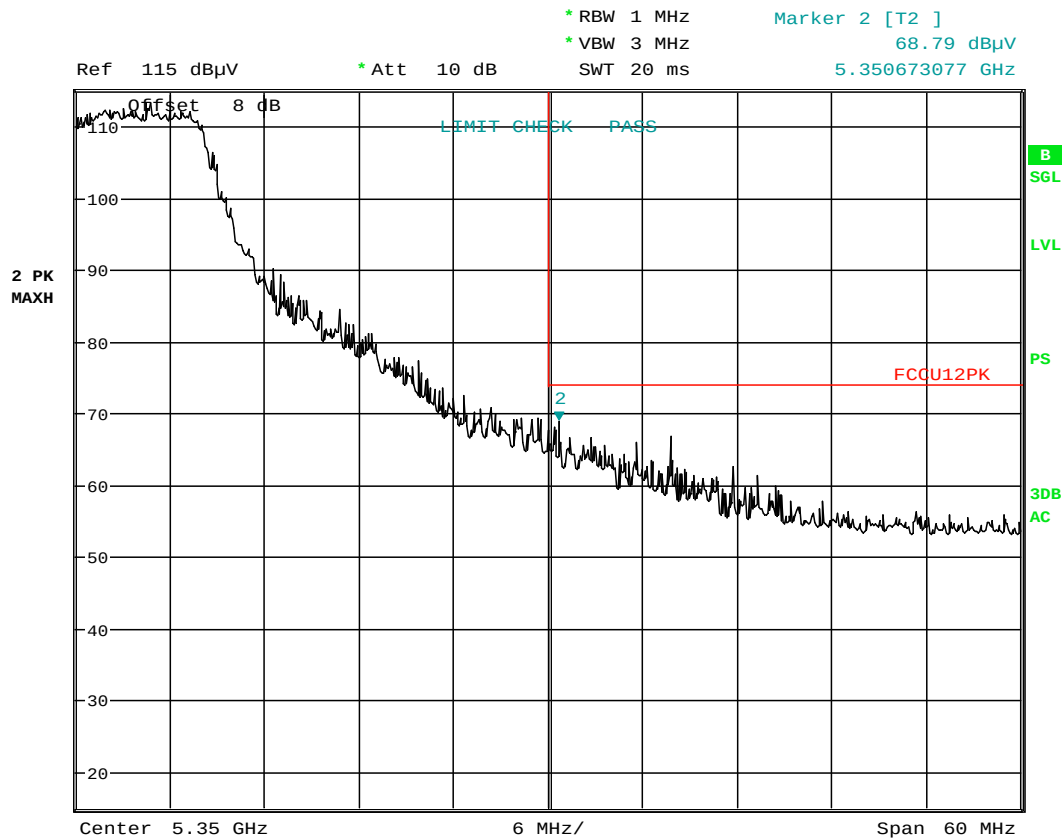
Date: 28.MAR.2017 09:29:58

Plot 7-193. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 151 of 227

Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 09:30:19

Plot 7-194. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 152 of 227

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Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

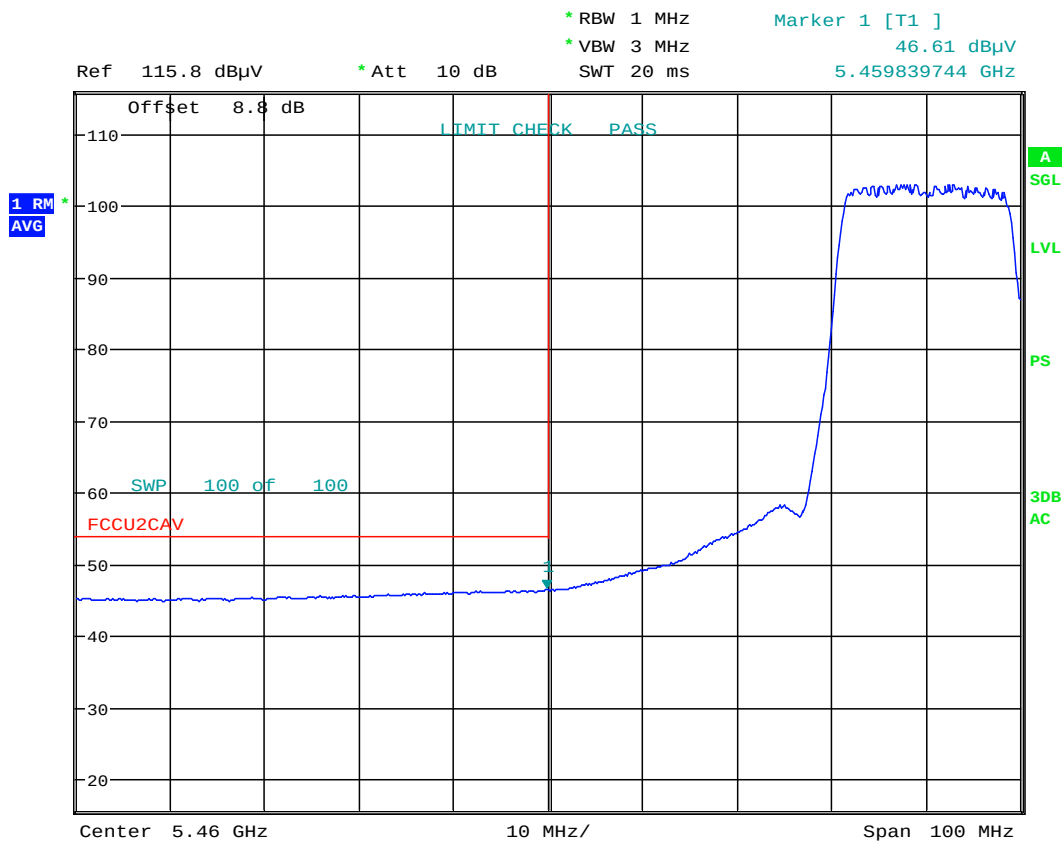
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100



Date: 28.MAR.2017 10:37:31

Plot 7-195. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 153 of 227

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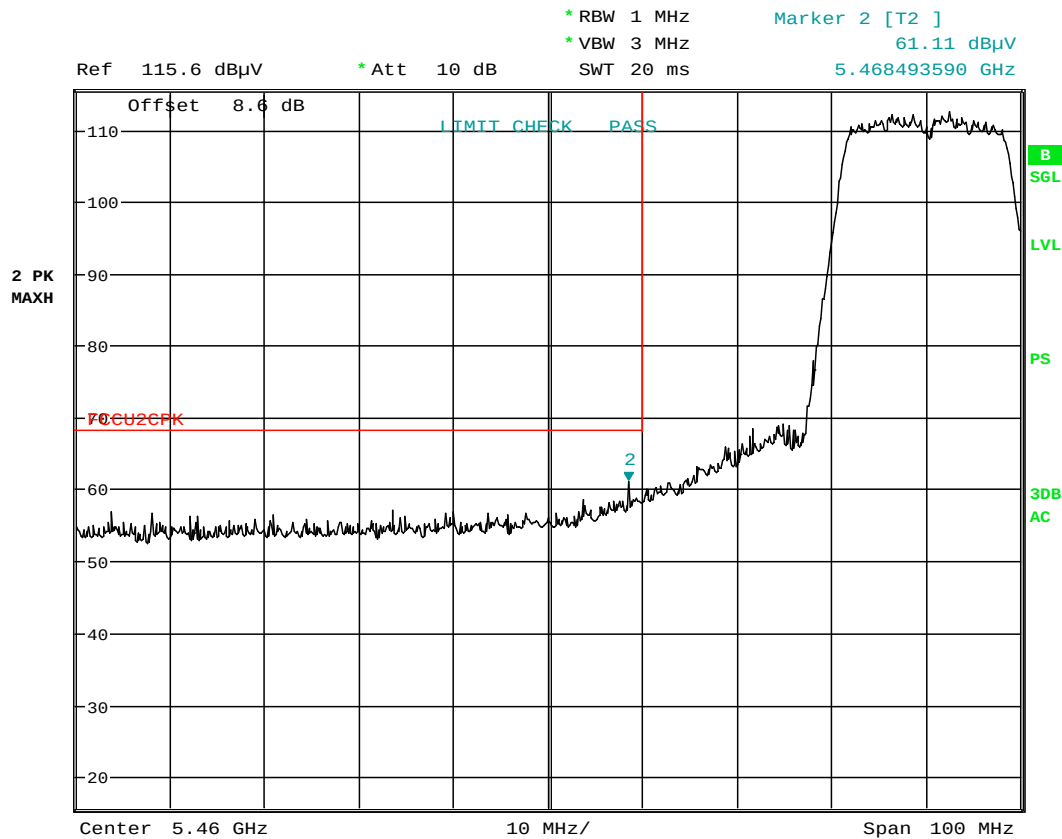
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Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 10:37:51

Plot 7-196. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 154 of 227

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7.6.5 Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

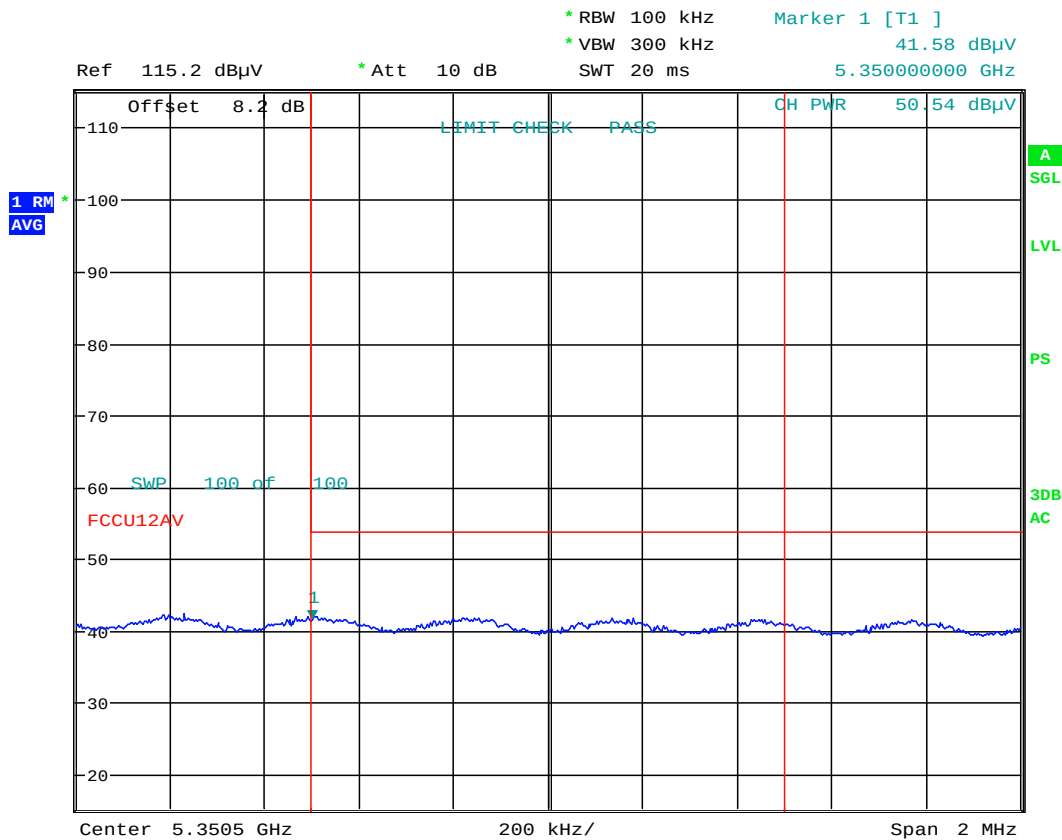
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



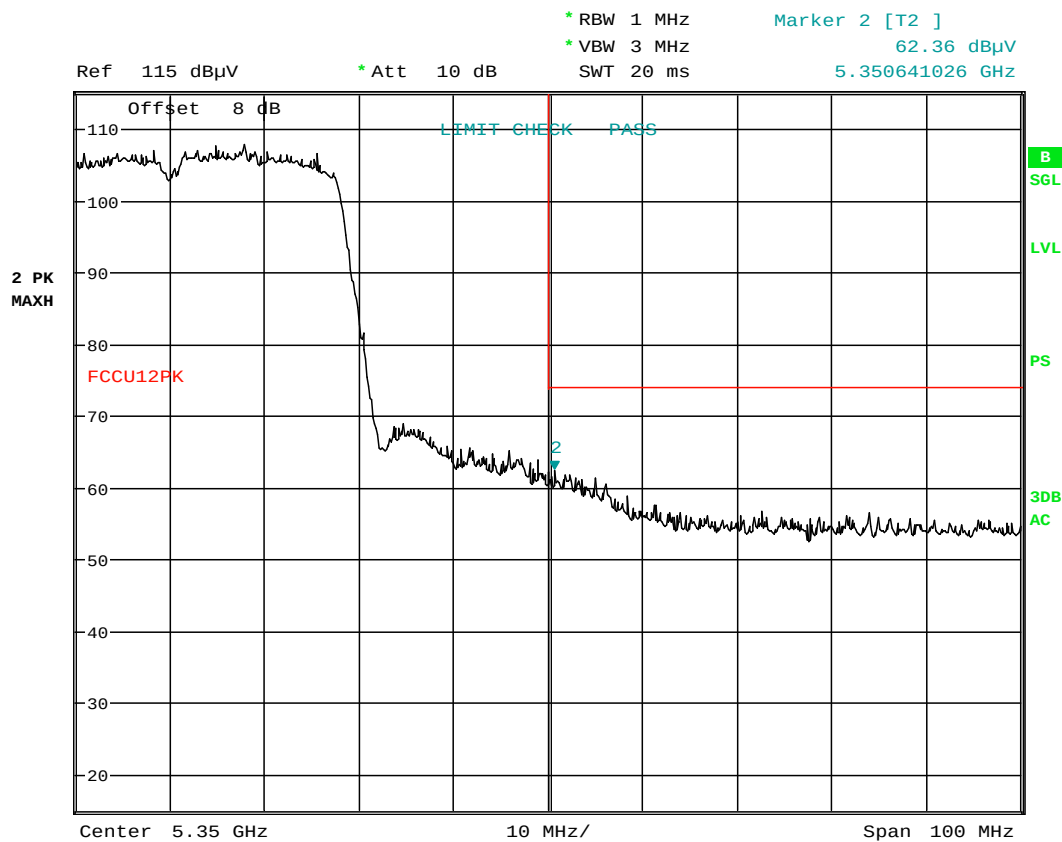
Date: 28.MAR.2017 10:03:38

Plot 7-197. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 155 of 227	

Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



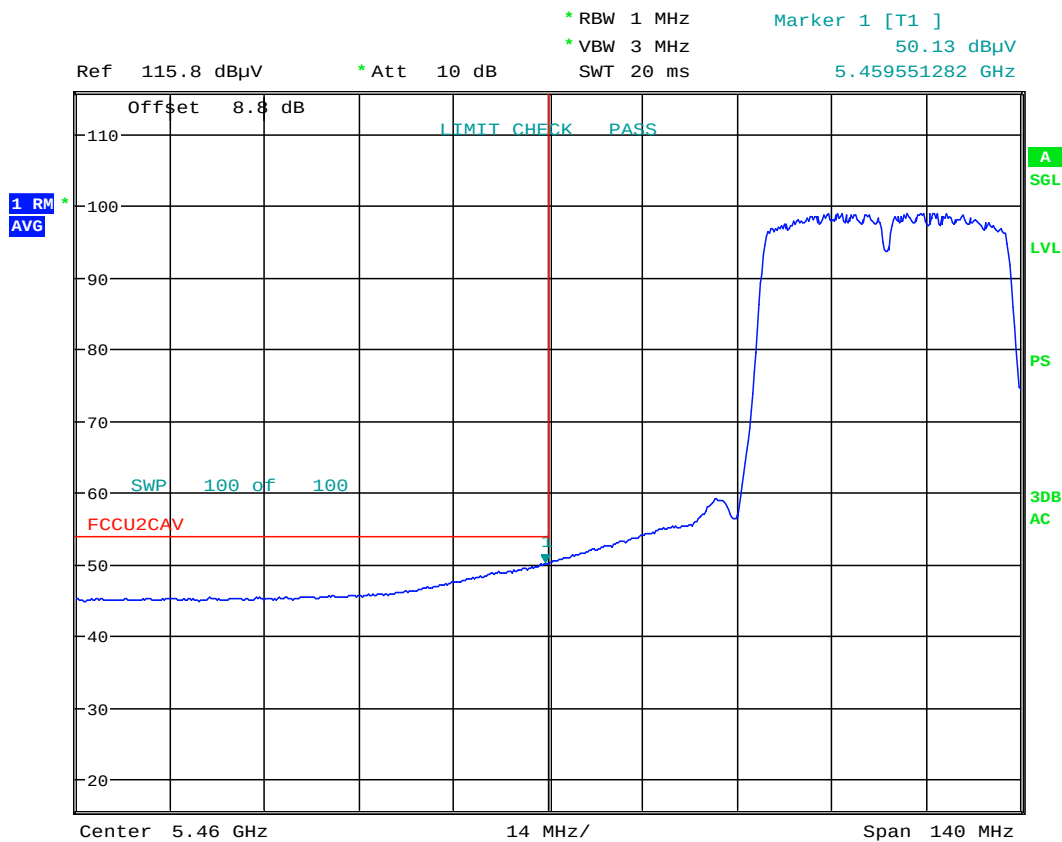
Date: 28.MAR.2017 10:03:50

Plot 7-198. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 156 of 227

Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.2)(b.3) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5510MHz
Channel: 102



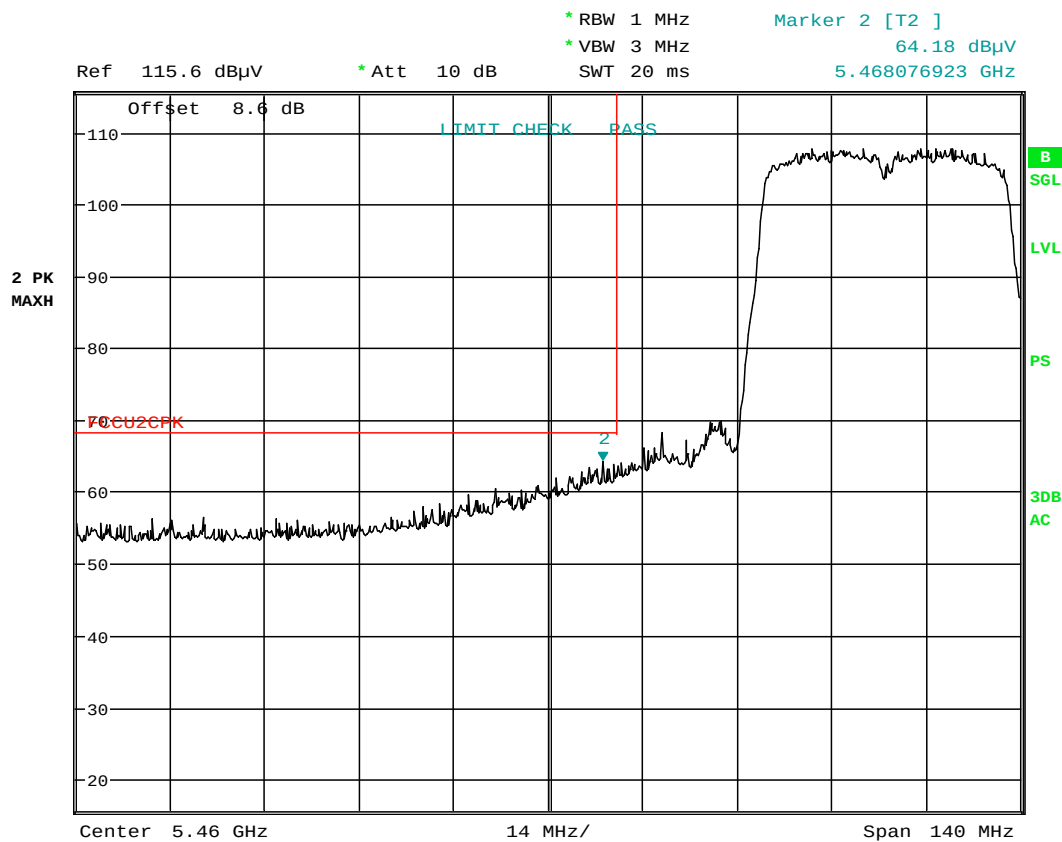
Date: 28.MAR.2017 10:32:18

Plot 7-199. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 157 of 227

Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 10:32:36

Plot 7-200. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 158 of 227

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7.6.6 Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

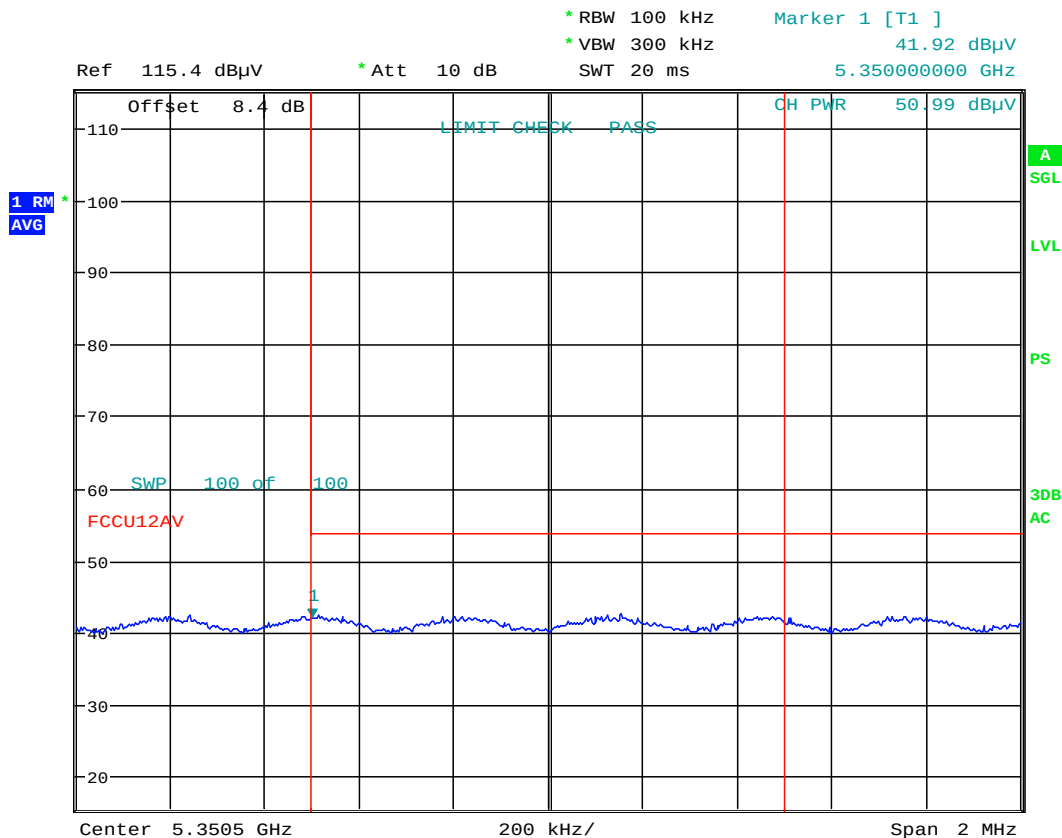
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



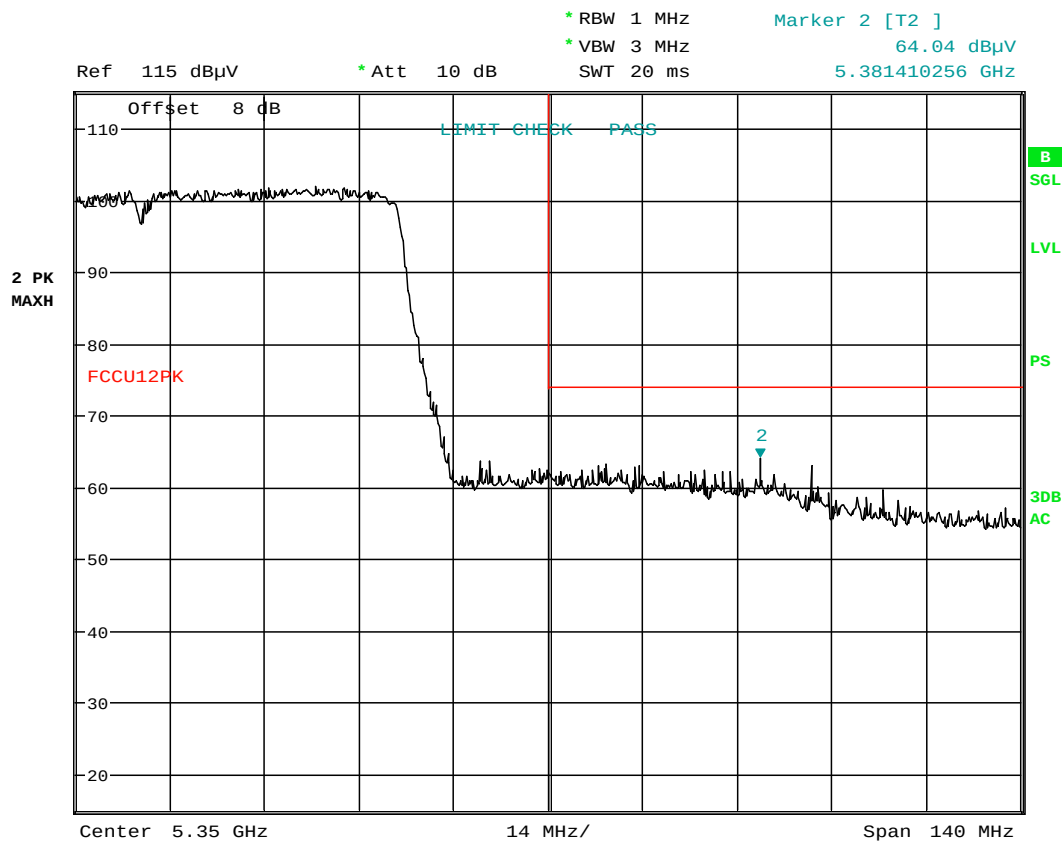
Date: 28.MAR.2017 10:08:09

Plot 7-201. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 159 of 227	

Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 10:08:32

Plot 7-202. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 160 of 227

Antenna-1 Radiated Band Edge Measurements (80MHz BW) **§15.407(b.2)(b.3) §15.205 §15.209**

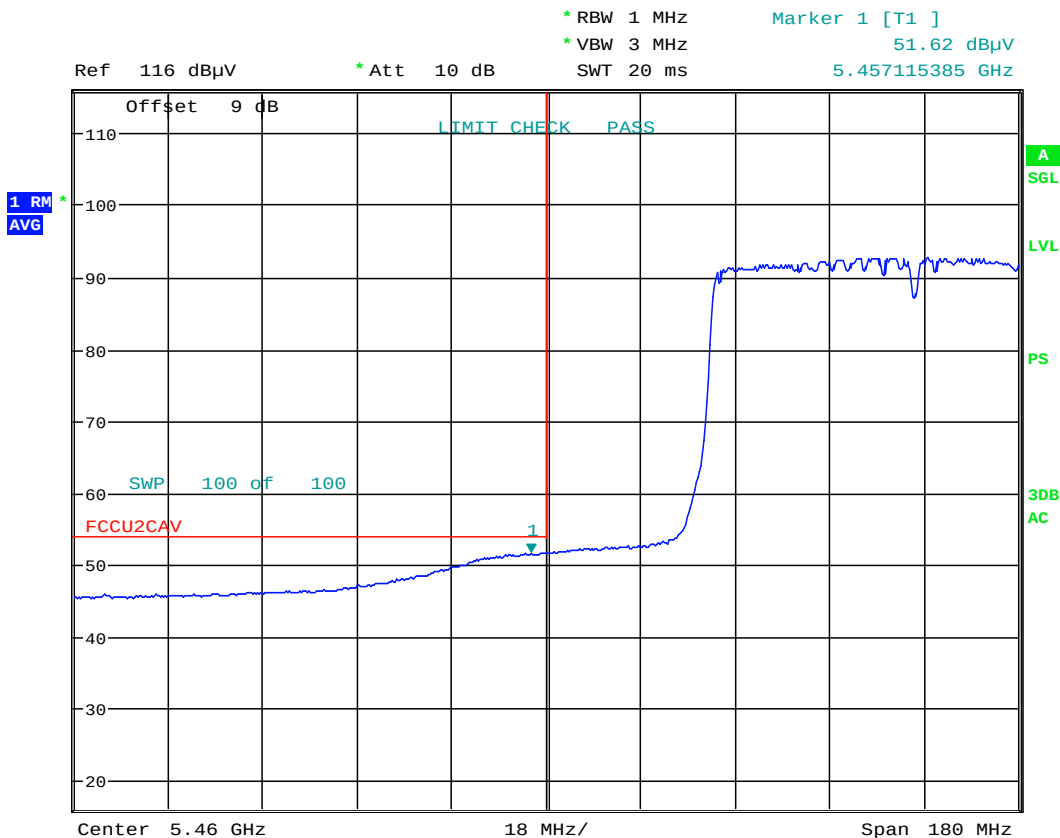
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



Date: 28.MAR.2017 10:15:30

Plot 7-203. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 161 of 227	

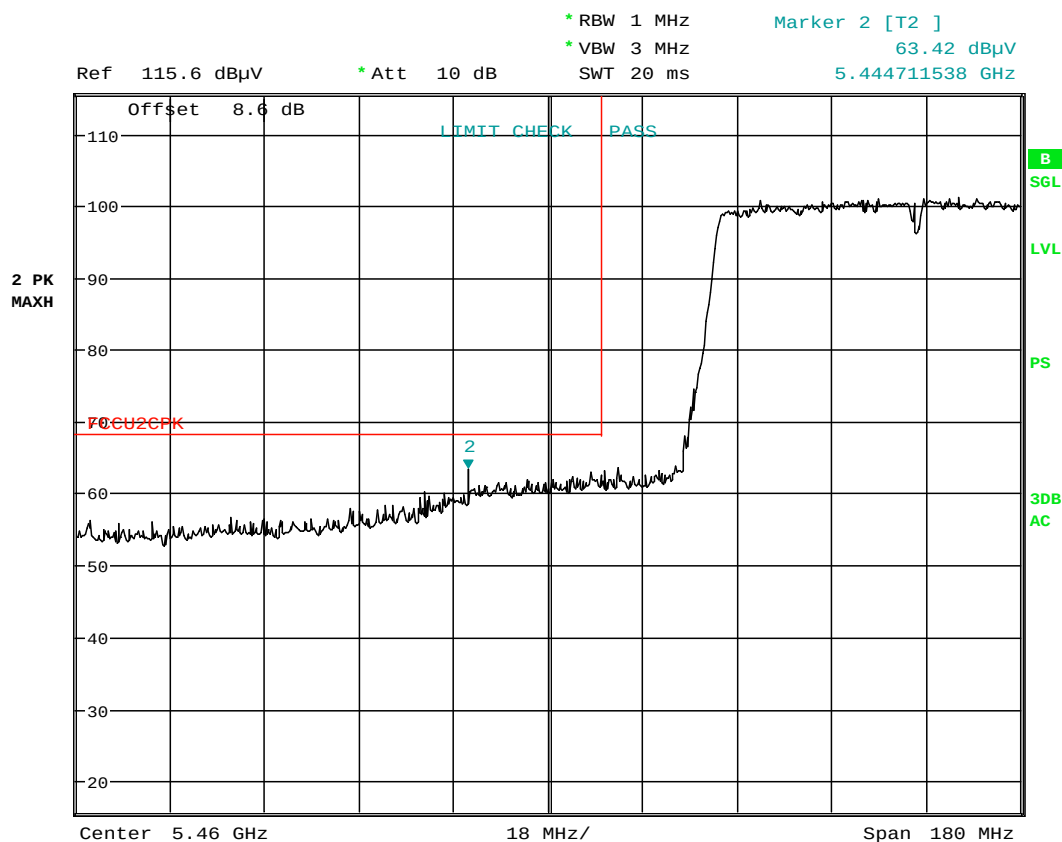
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Antenna-1 Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.2)(b.3) \$15.205 \$15.209



Date: 28.MAR.2017 10:15:49

Plot 7-204. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 162 of 227

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7.6.7 Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

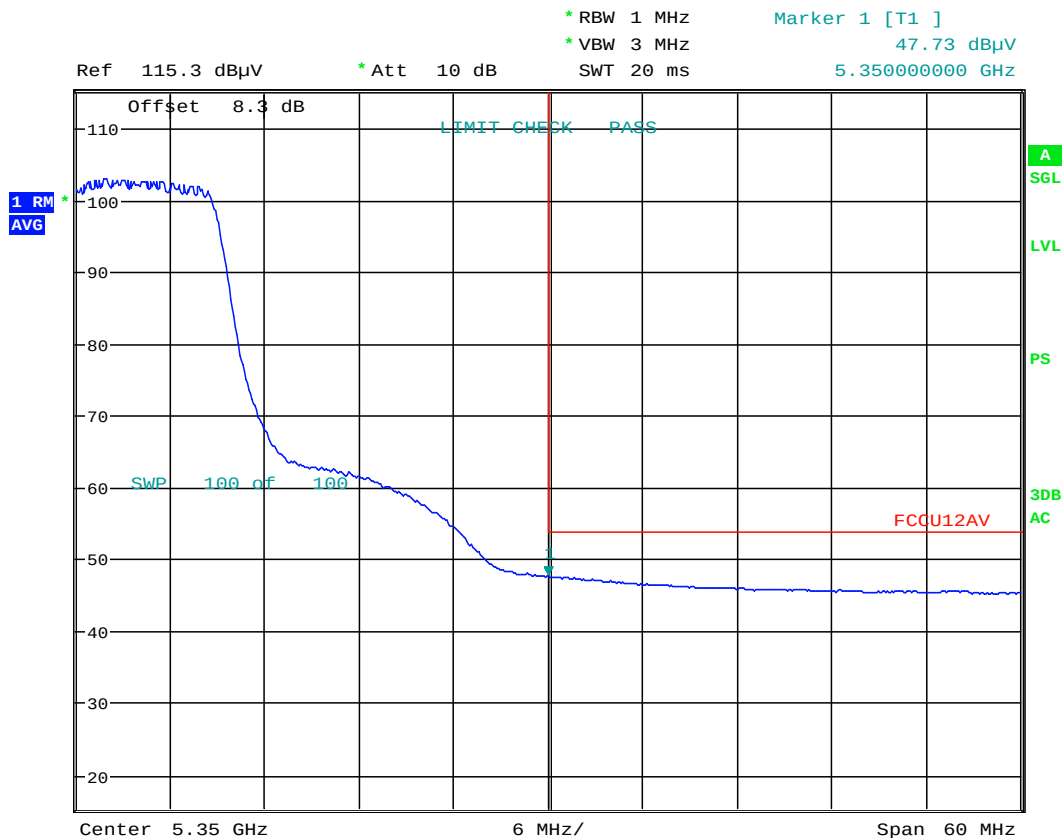
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64

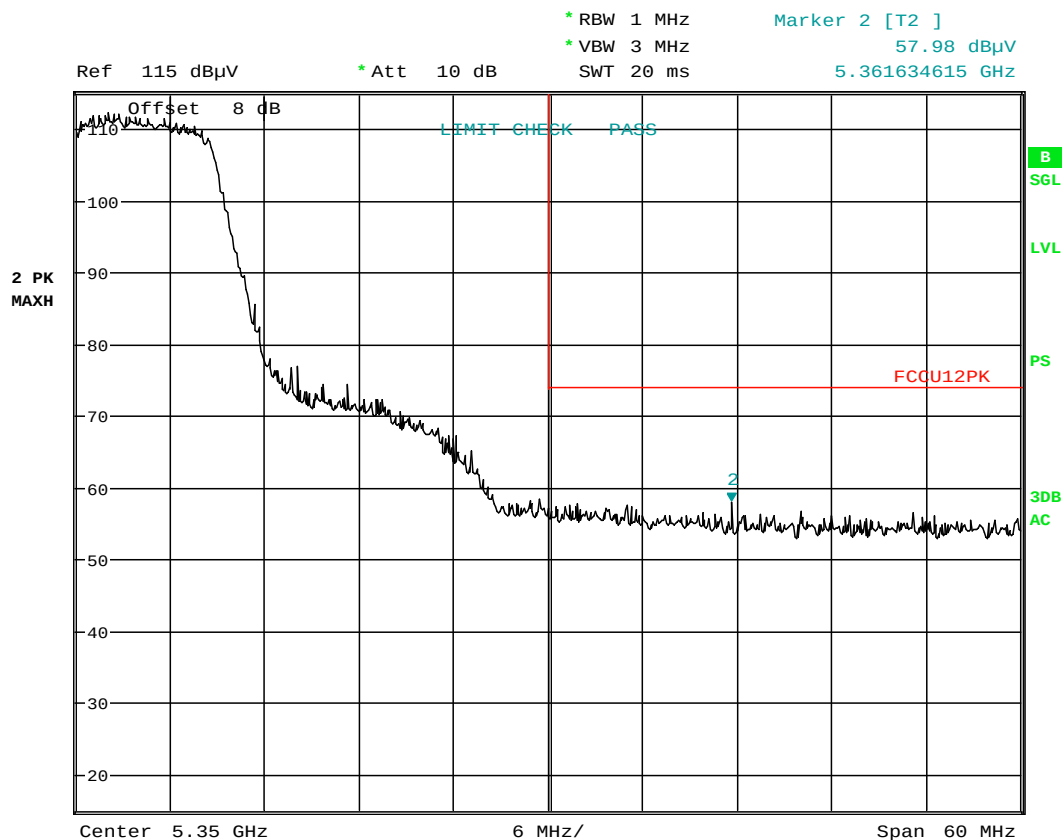


Date: 28.MAR.2017 11:53:16

Plot 7-205. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 163 of 227

Antenna-2 Radiated Band Edge Measurements (20MHz BW) **§15.407(b.2)(b.3) §15.205 §15.209**



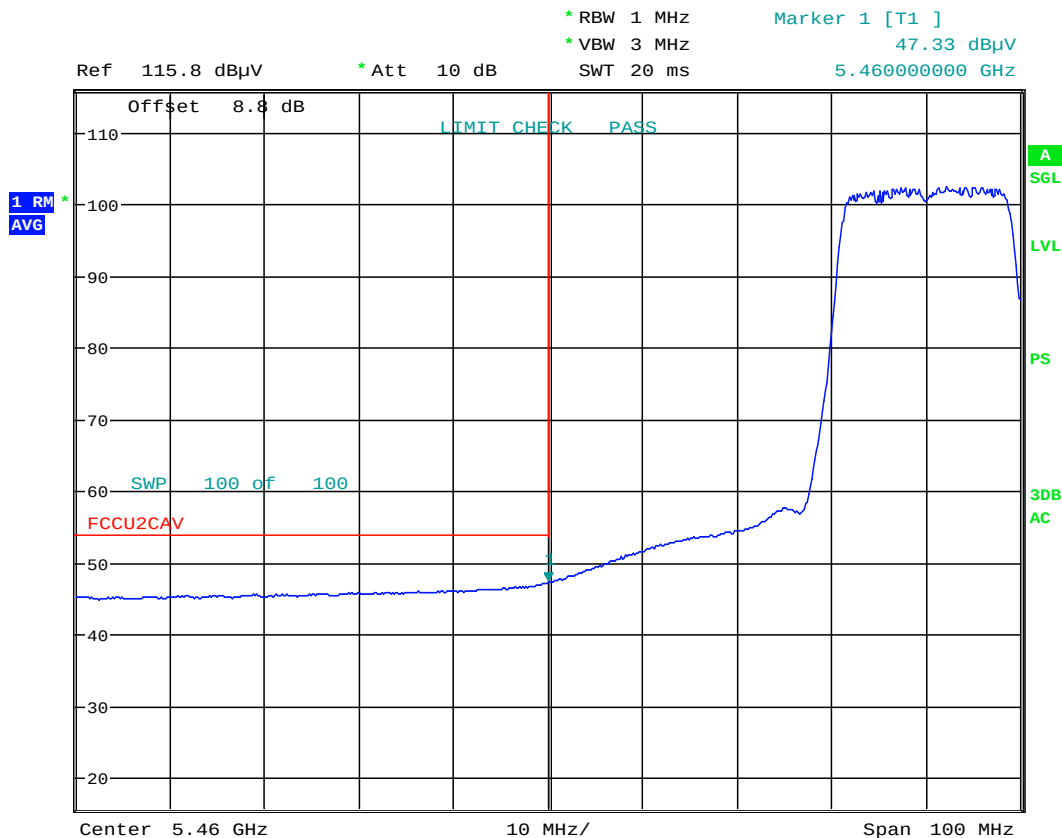
Date: 28.MAR.2017 11:53:36

Plot 7-206. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 164 of 227

Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.2)(b.3) §15.205 §15.209

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100



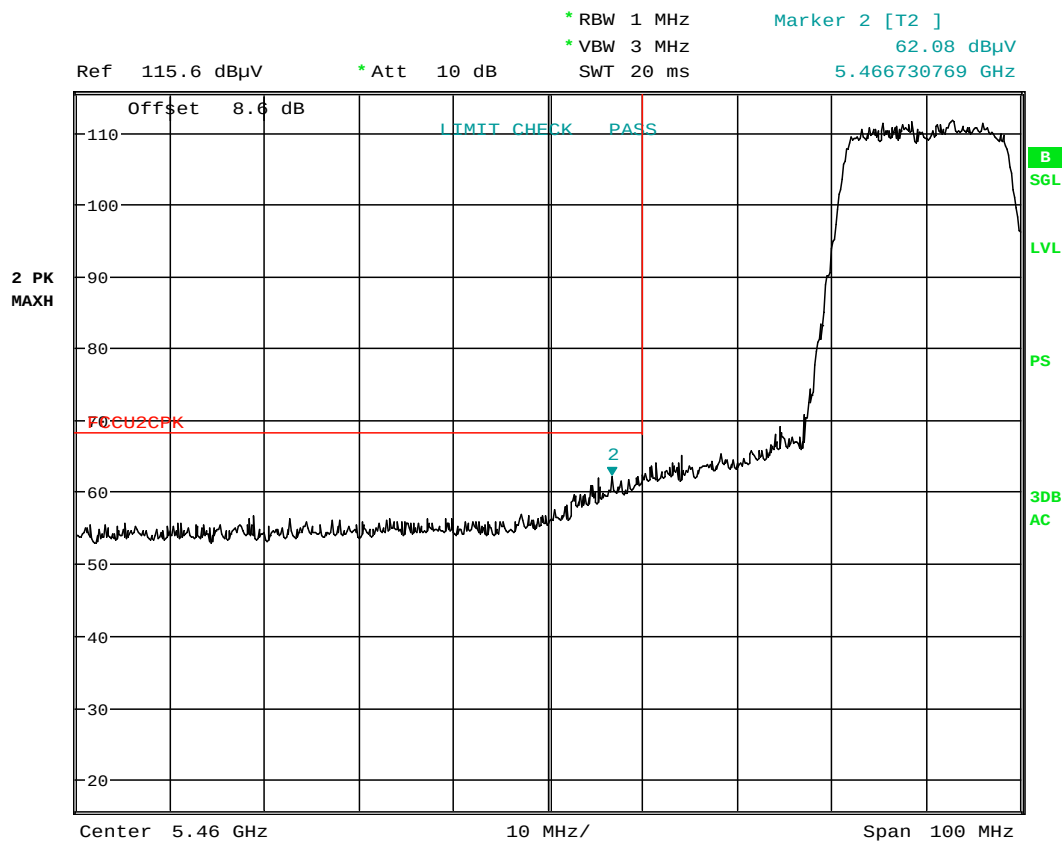
Date: 28.MAR.2017 10:50:36

Plot 7-207. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 165 of 227

Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 10:51:32

Plot 7-208. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 166 of 227

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7.6.8 Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

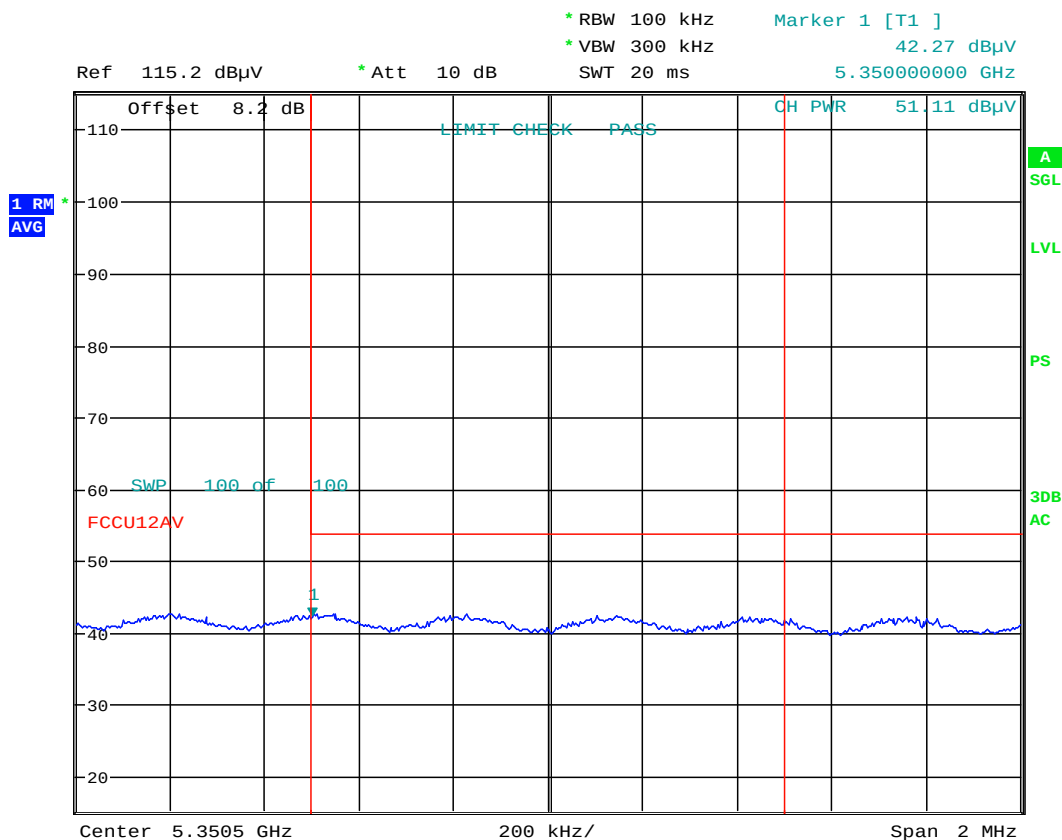
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



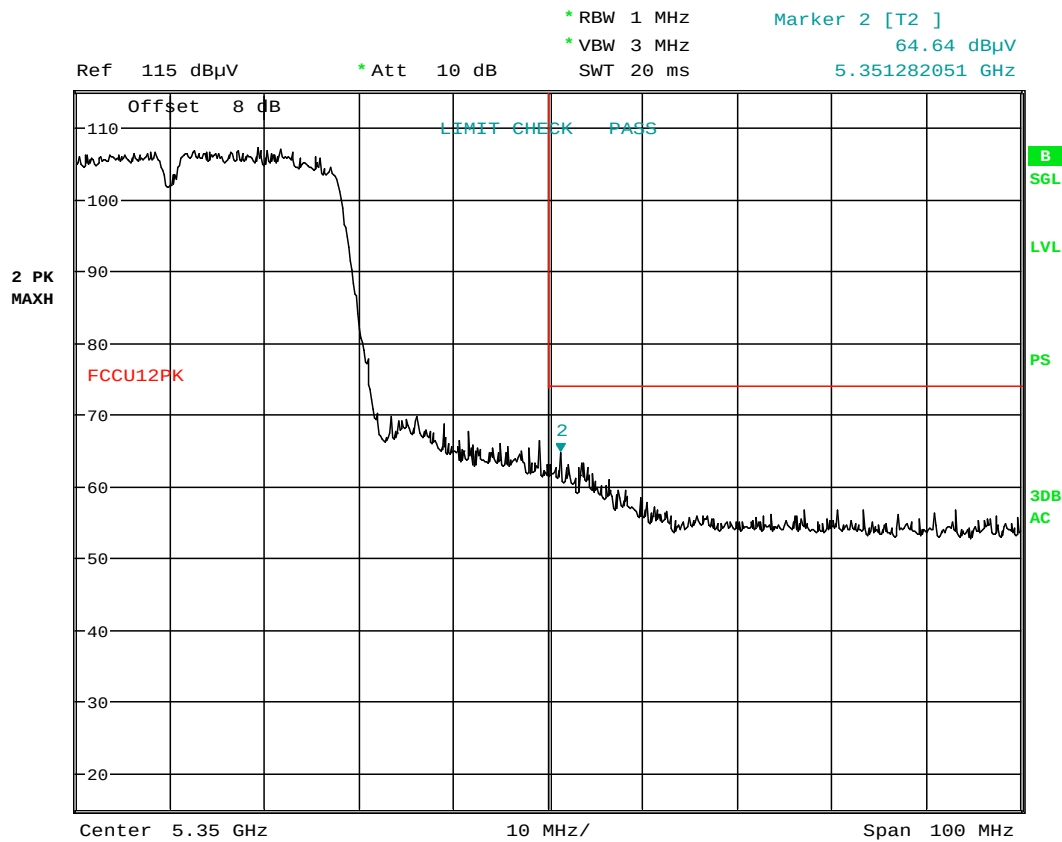
Date: 28.MAR.2017 11:50:26

Plot 7-209. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 167 of 227	

Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 11:50:55

Plot 7-210. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 168 of 227

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Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

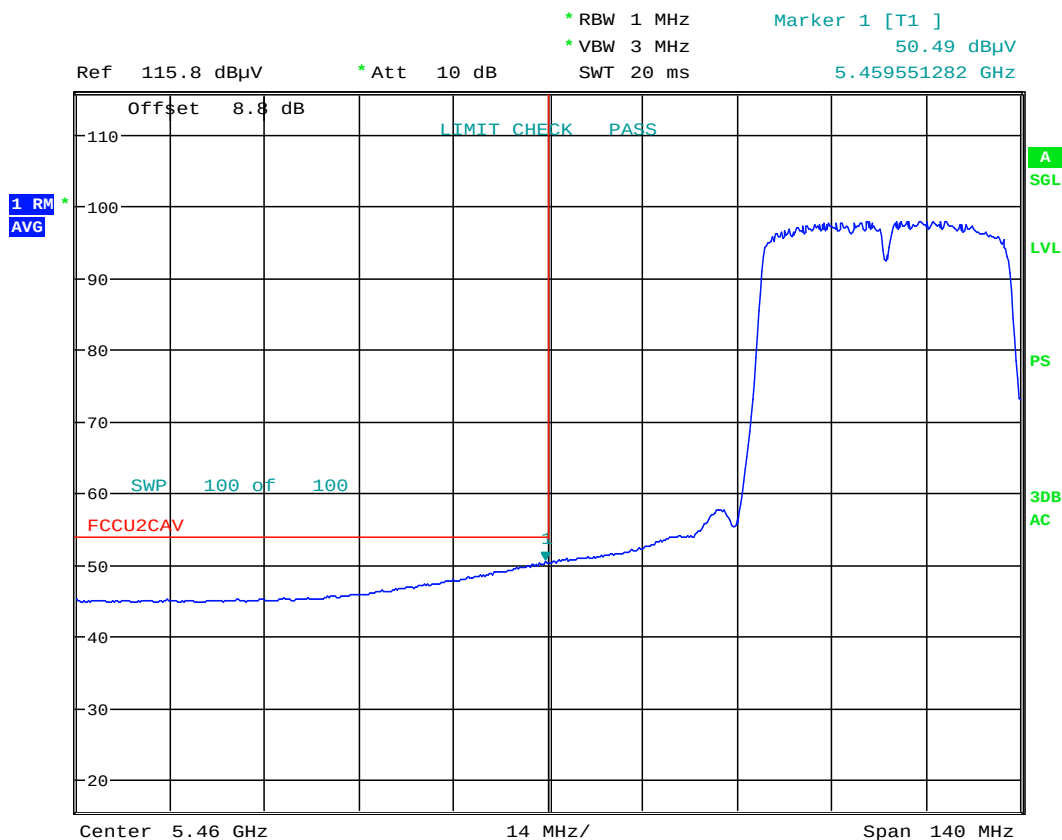
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



Date: 28.MAR.2017 11:08:06

Plot 7-211. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 169 of 227

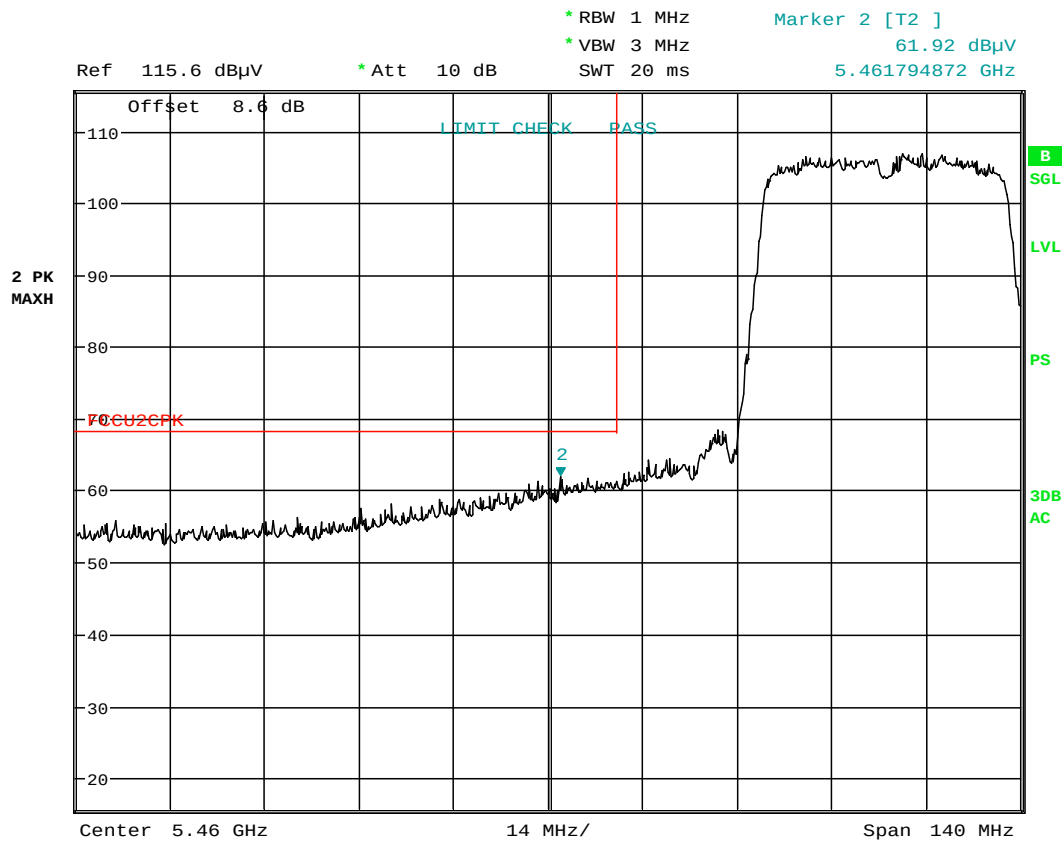
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Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 11:08:31

Plot 7-212. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 170 of 227

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7.6.9 Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

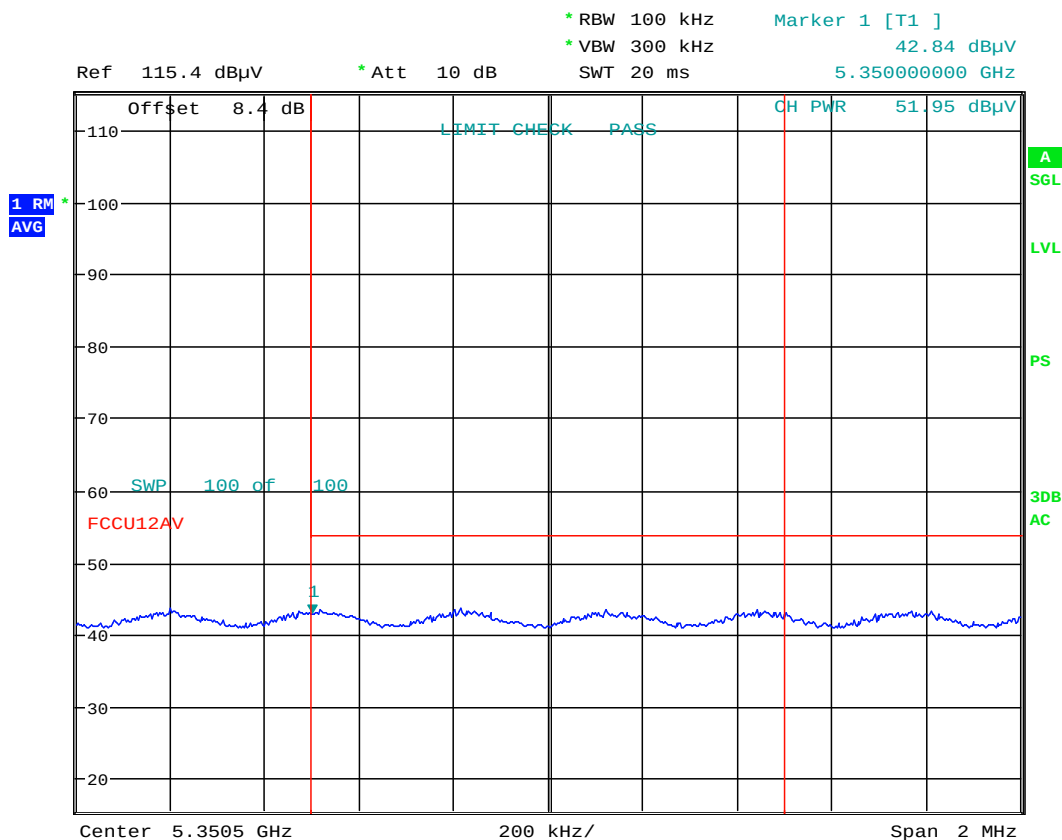
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



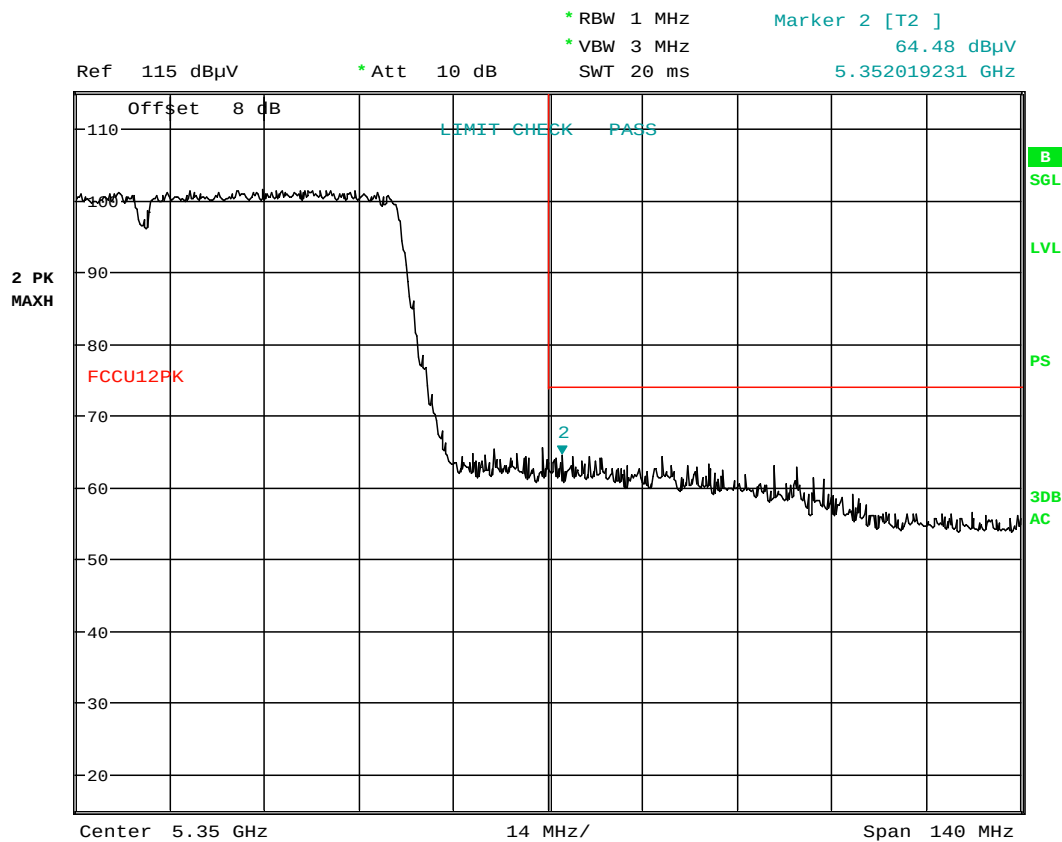
Date: 28.MAR.2017 11:46:42

Plot 7-213. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 171 of 227	

Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



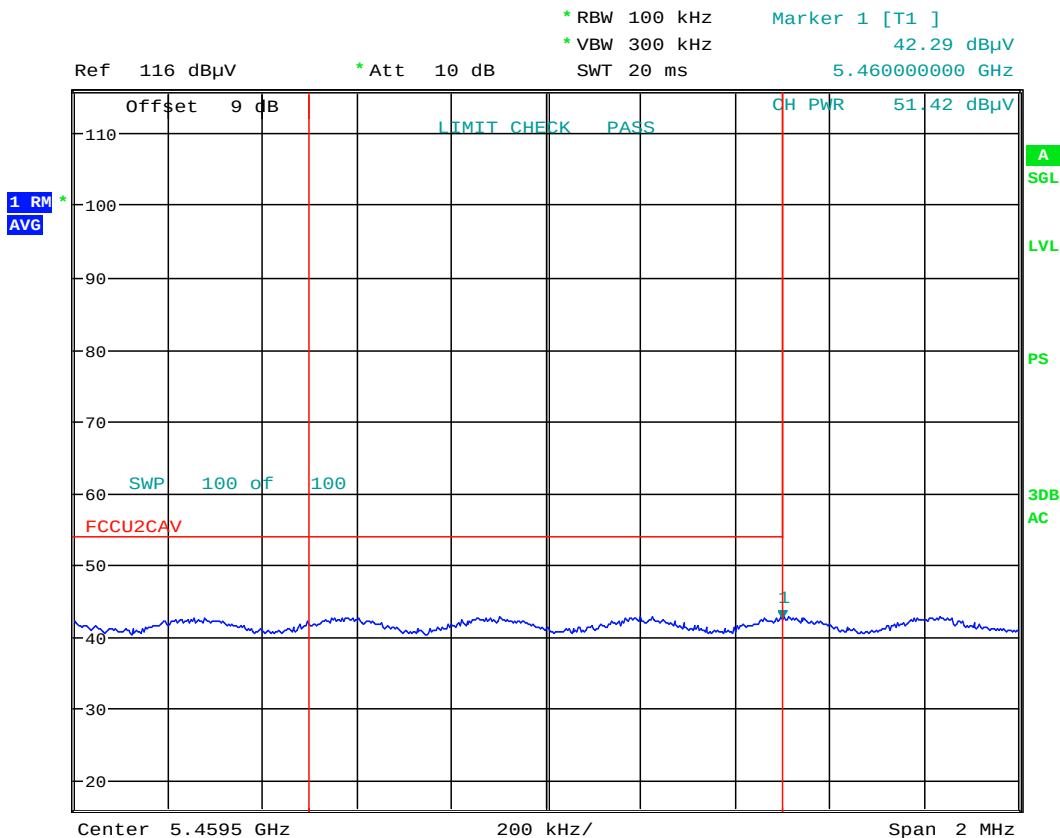
Date: 28.MAR.2017 11:47:01

Plot 7-214. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 172 of 227

Antenna-2 Radiated Band Edge Measurements (80MHz BW) §15.407(b.2)(b.3) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106



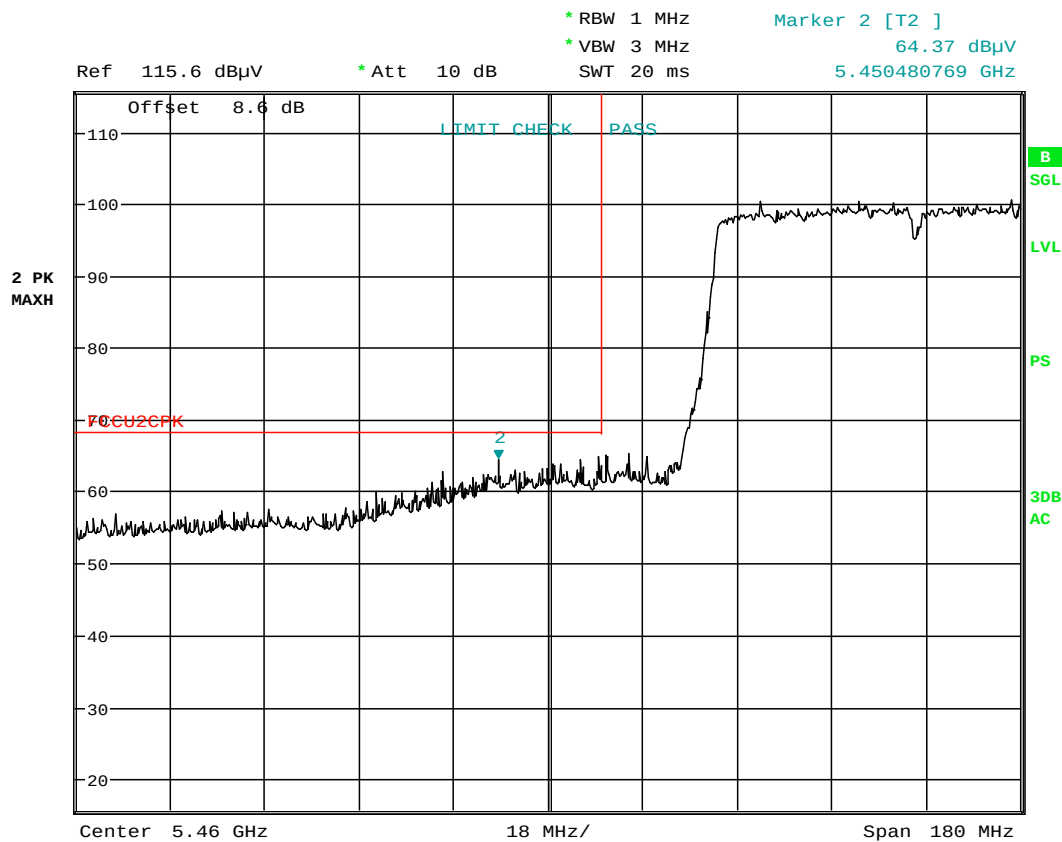
Date: 28.MAR.2017 11:20:54

Plot 7-215. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 173 of 227

Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 11:21:13

Plot 7-216. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 174 of 227

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7.6.10 Antenna-3 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

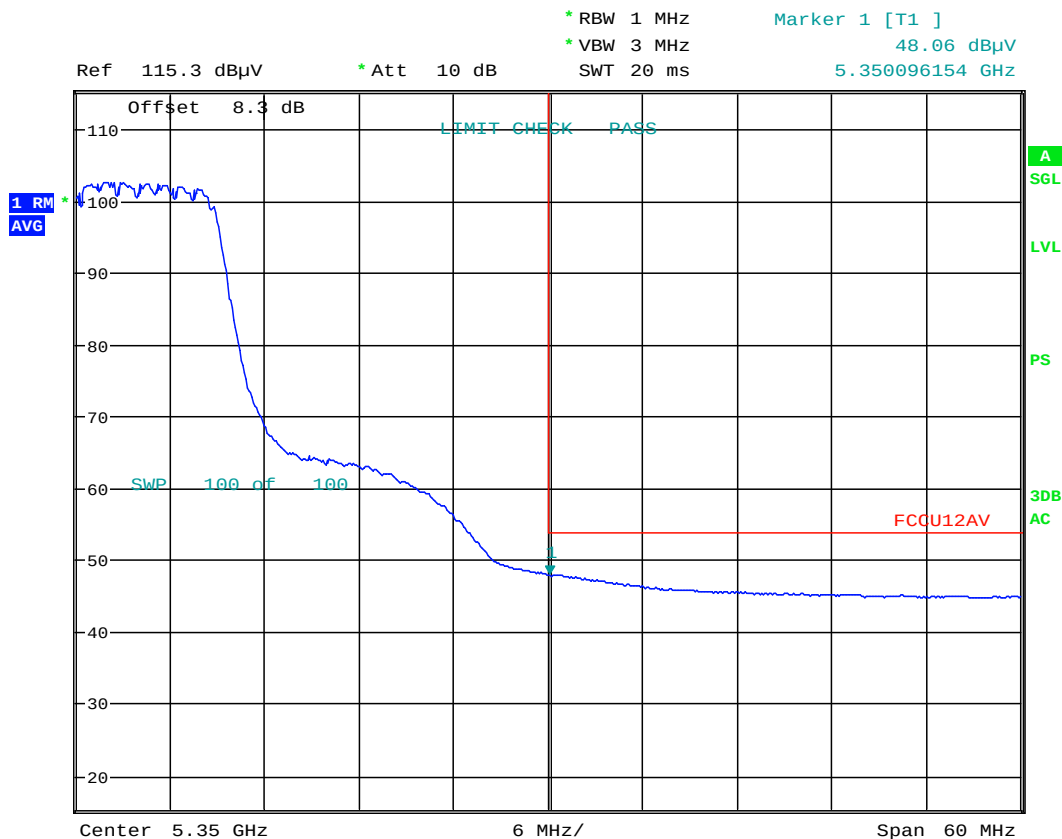
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



Date: 28.MAR.2017 12:07:08

Plot 7-217. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 175 of 227	

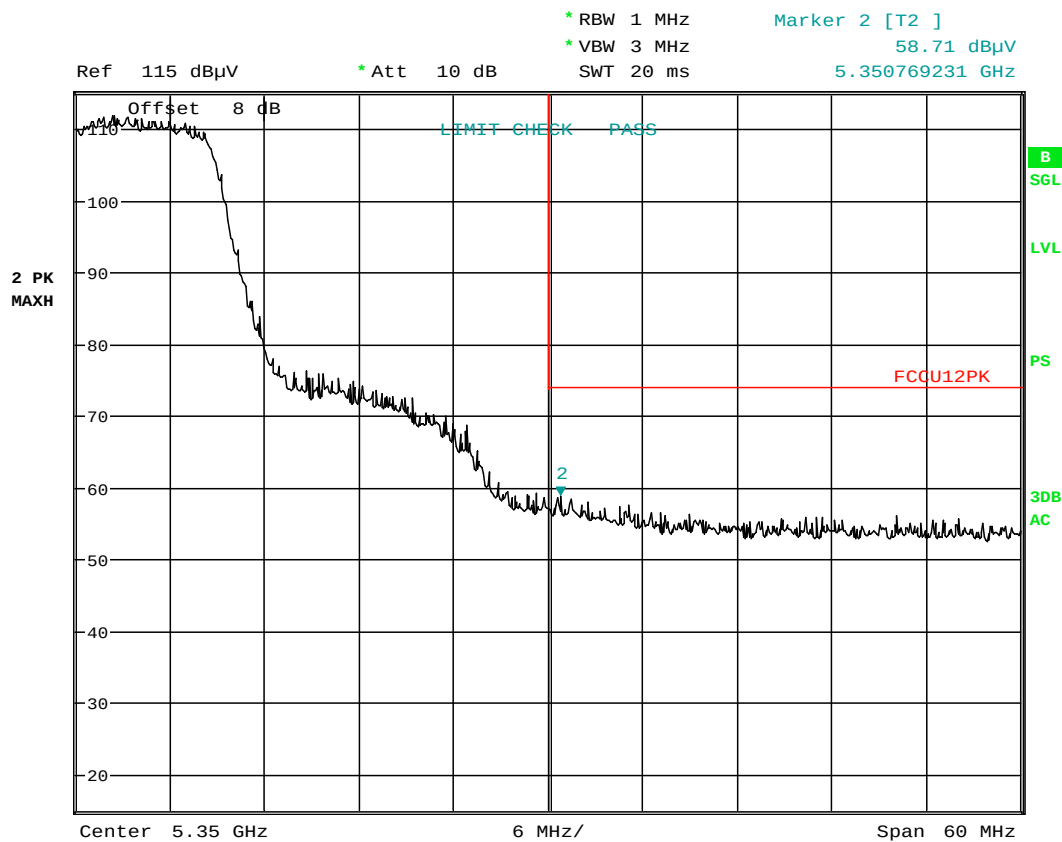
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Antenna-3 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 12:07:27

Plot 7-218. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 176 of 227

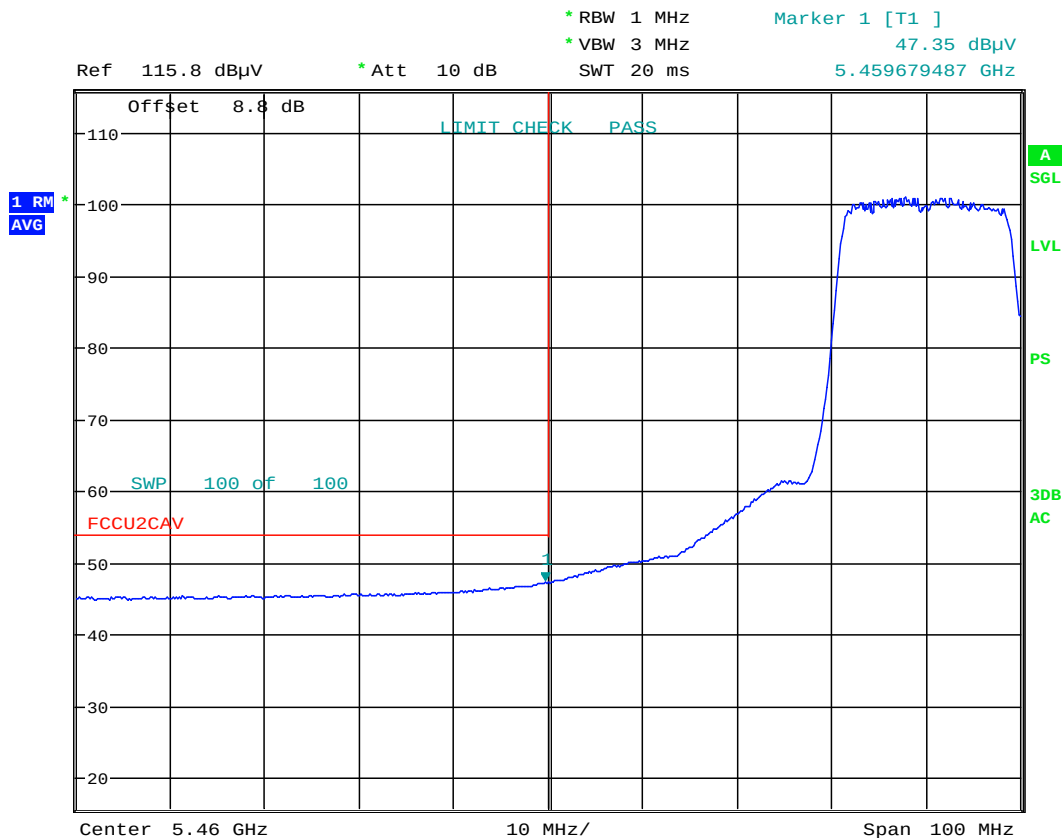
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Antenna-3 Radiated Band Edge Measurements (20MHz BW) §15.407(b.2)(b.3) §15.205 §15.209

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100



Date: 28.MAR.2017 12:35:54

Plot 7-219. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 177 of 227	

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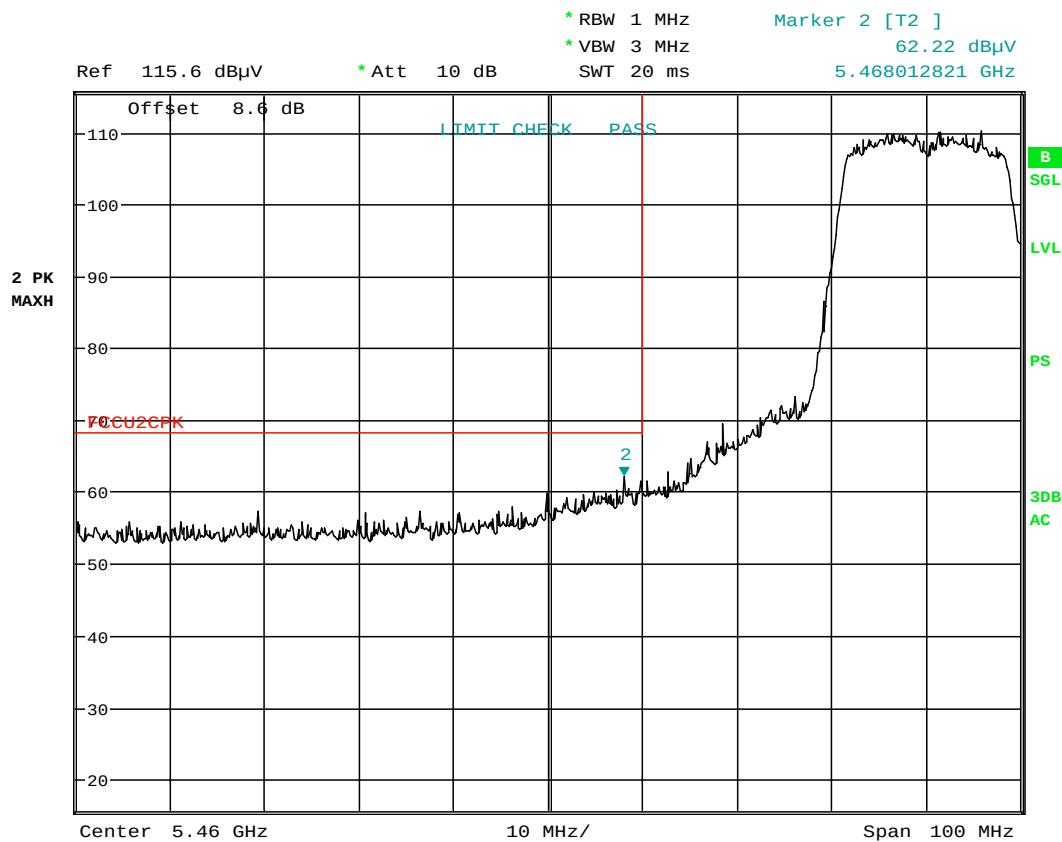
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Antenna-3 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 12:36:22

Plot 7-220. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 178 of 227

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7.6.11 Antenna-3 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

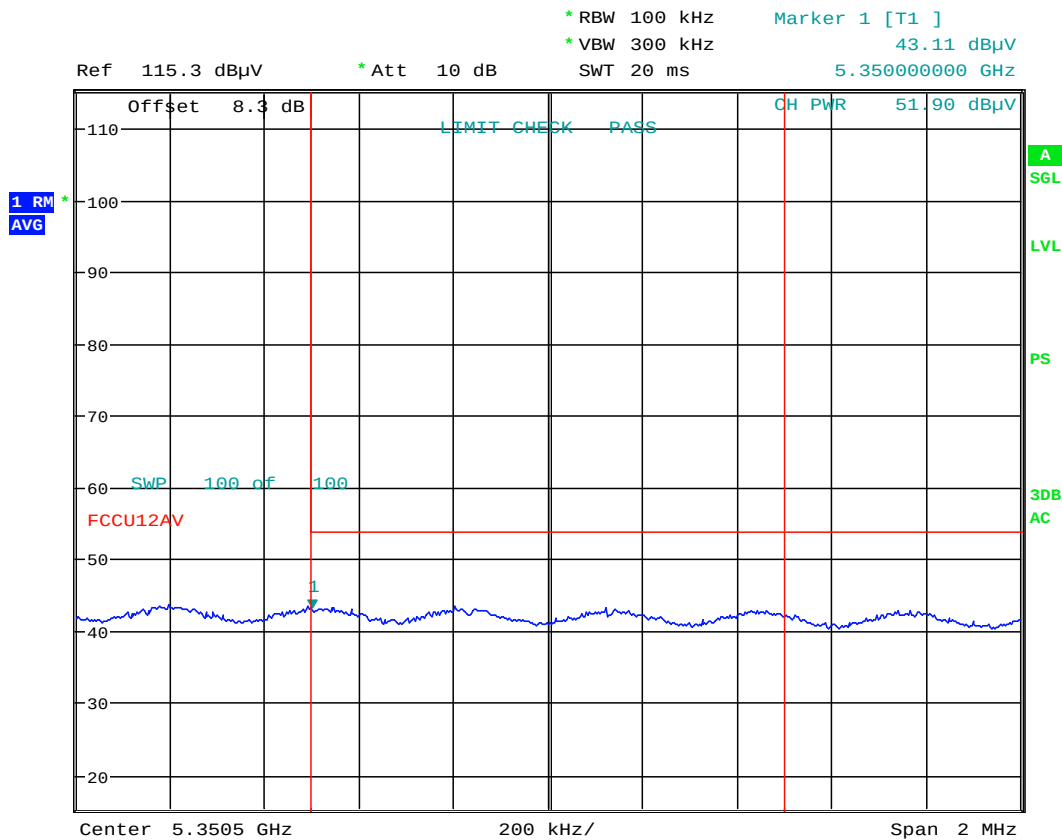
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



Date: 28.MAR.2017 12:18:10

Plot 7-221. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 179 of 227

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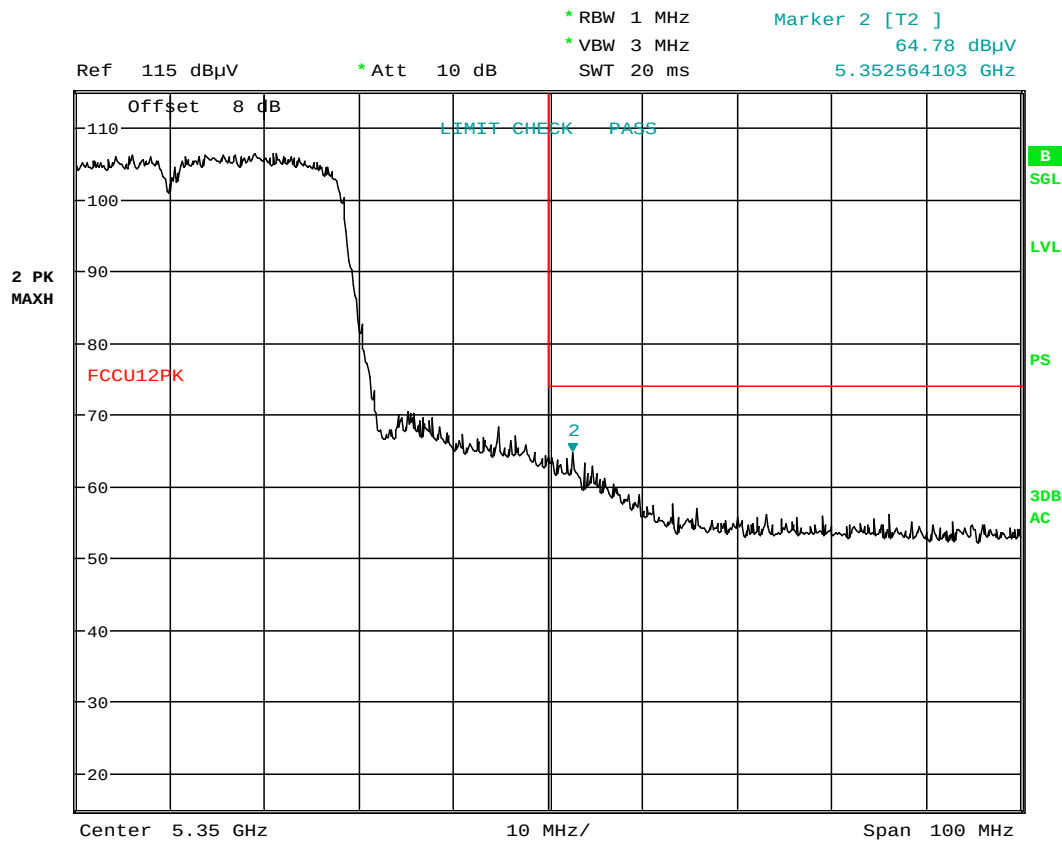
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Antenna-3 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 12:18:28

Plot 7-222. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 180 of 227

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Antenna-3 Radiated Band Edge Measurements (40MHz BW) **§15.407(b.2)(b.3) §15.205 §15.209**

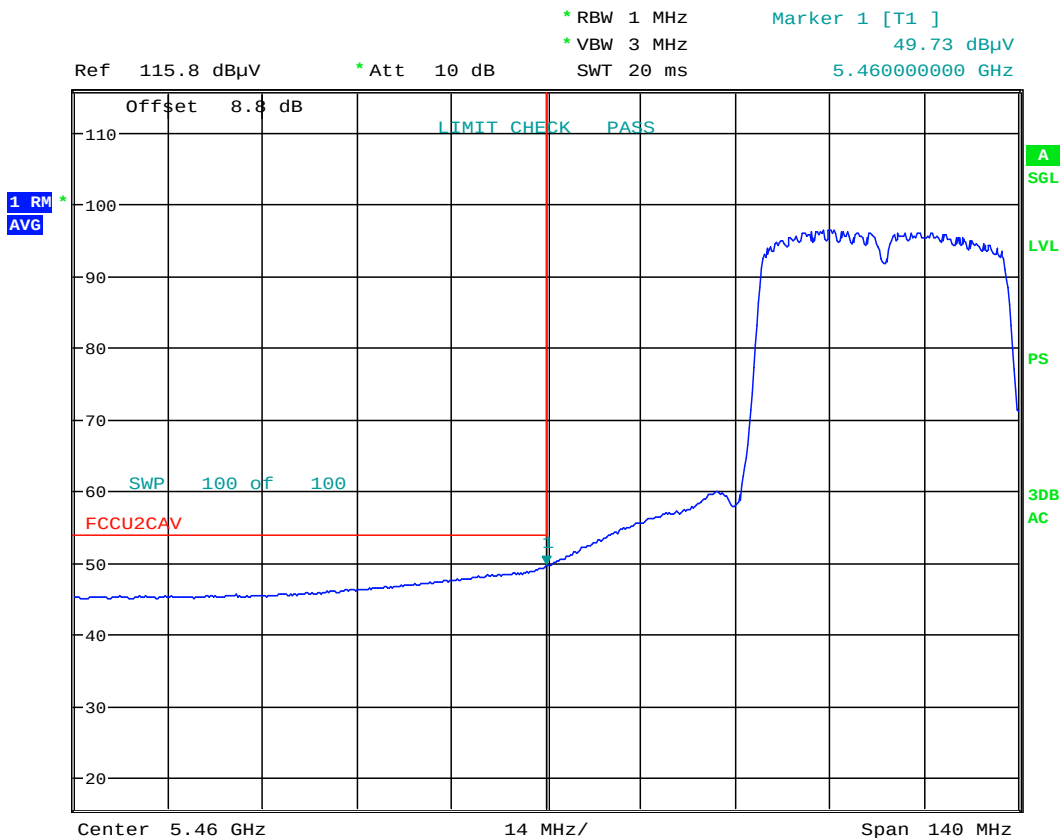
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



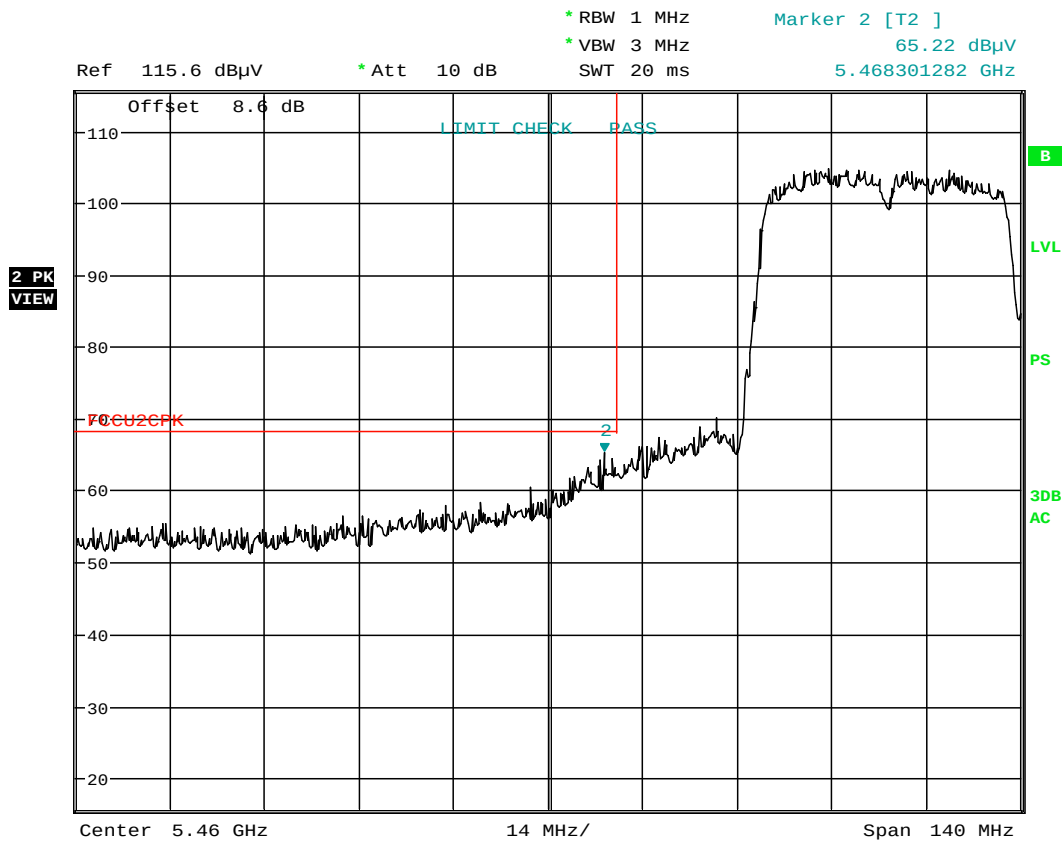
Date: 28.MAR.2017 12:32:23

Plot 7-223. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 181 of 227

Antenna-3 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 12:33:07

Plot 7-224. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 182 of 227

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7.6.12 Antenna-3 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

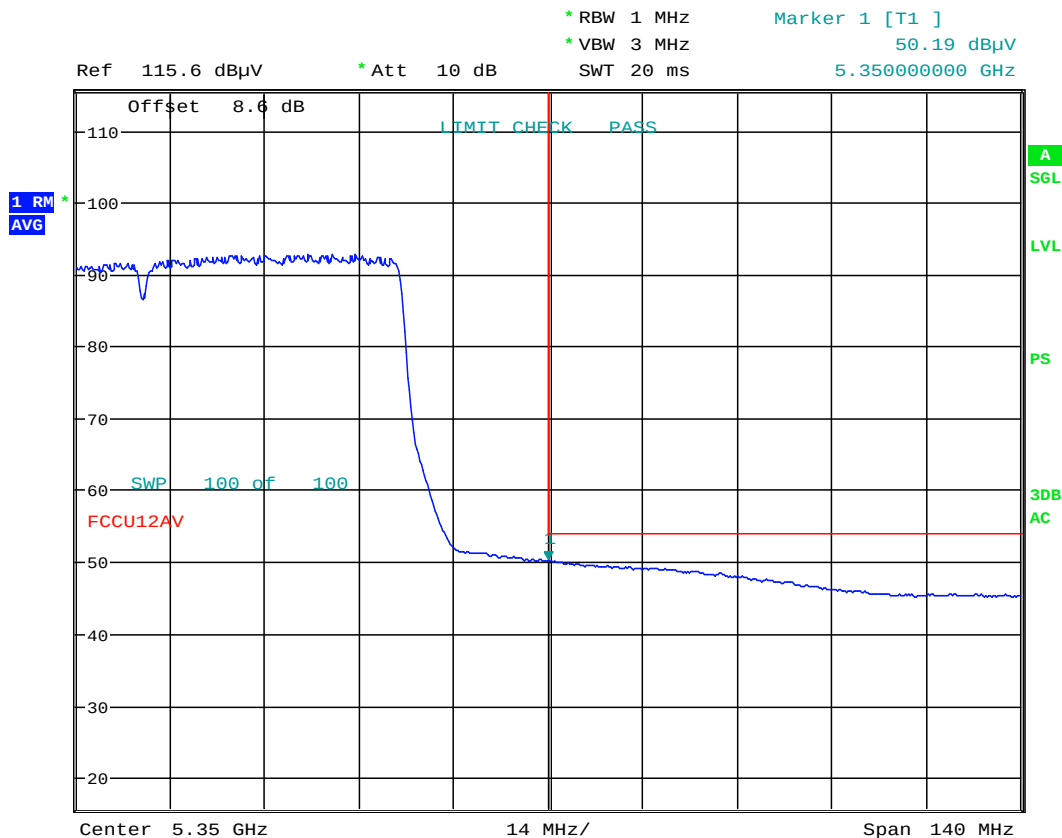
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



Date: 28.MAR.2017 12:21:44

Plot 7-225. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 183 of 227

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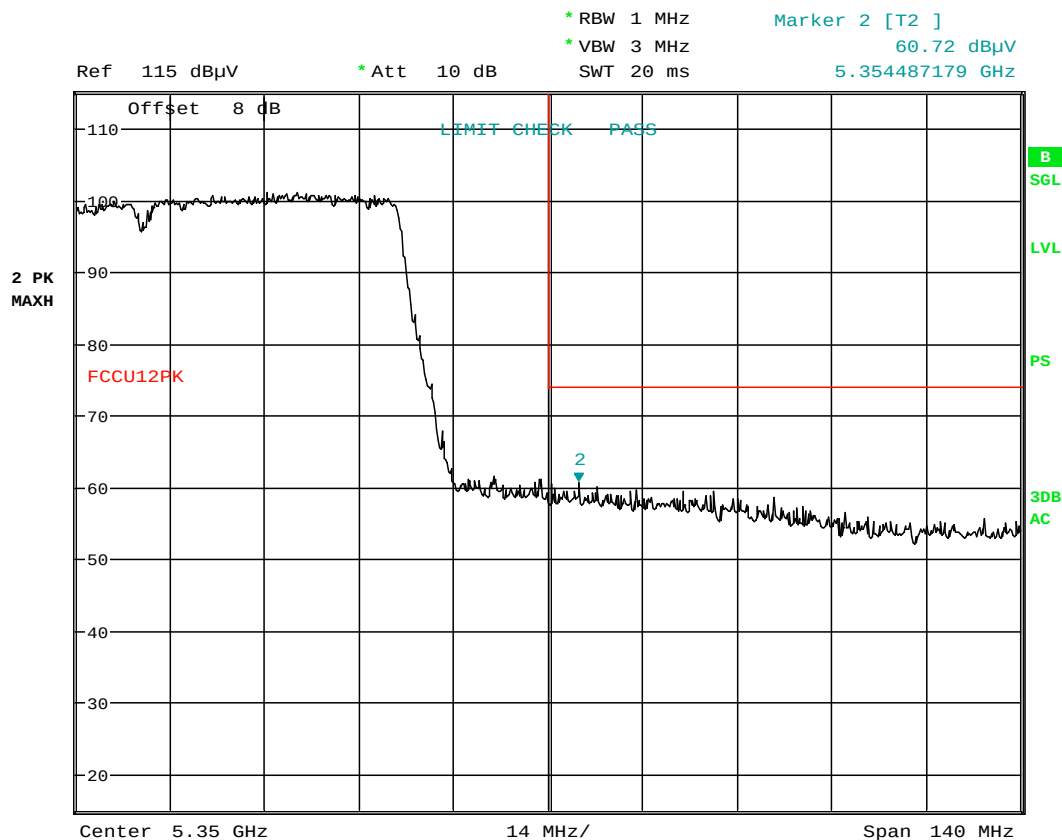
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Antenna-3 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 12:22:01

Plot 7-226. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 184 of 227

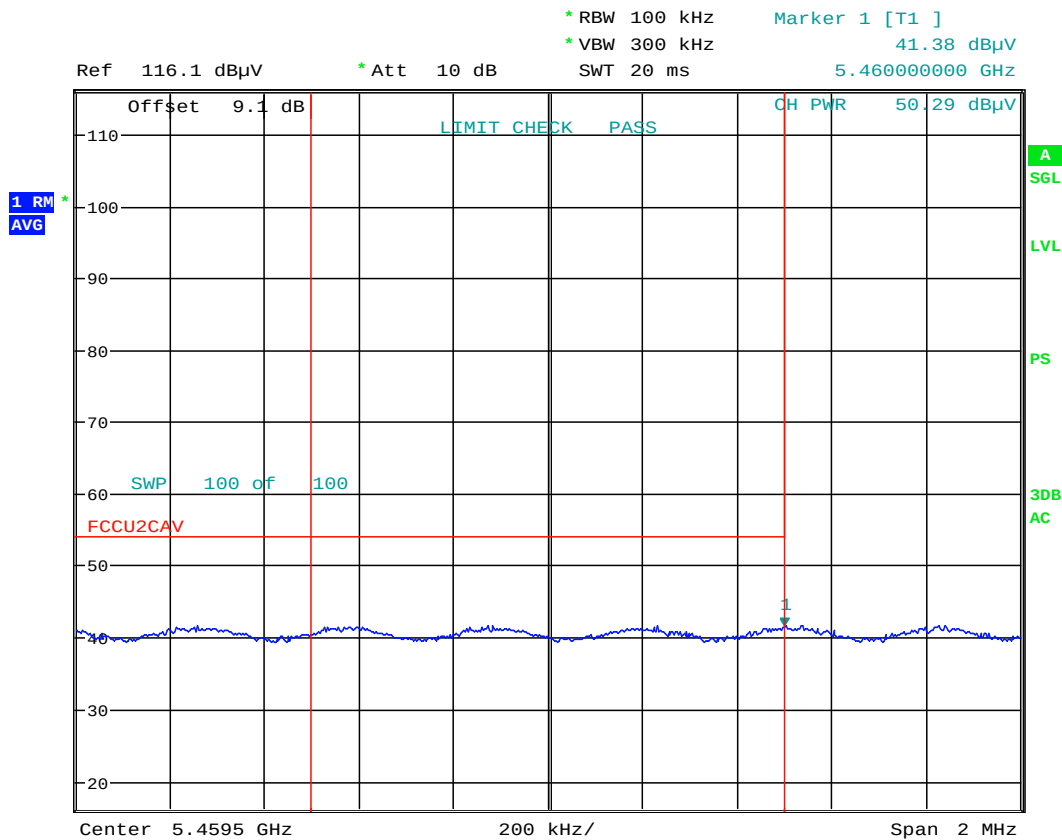
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Antenna-3 Radiated Band Edge Measurements (80MHz BW) §15.407(b.2)(b.3) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106



Date: 28.MAR.2017 12:29:52

Plot 7-227. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 185 of 227

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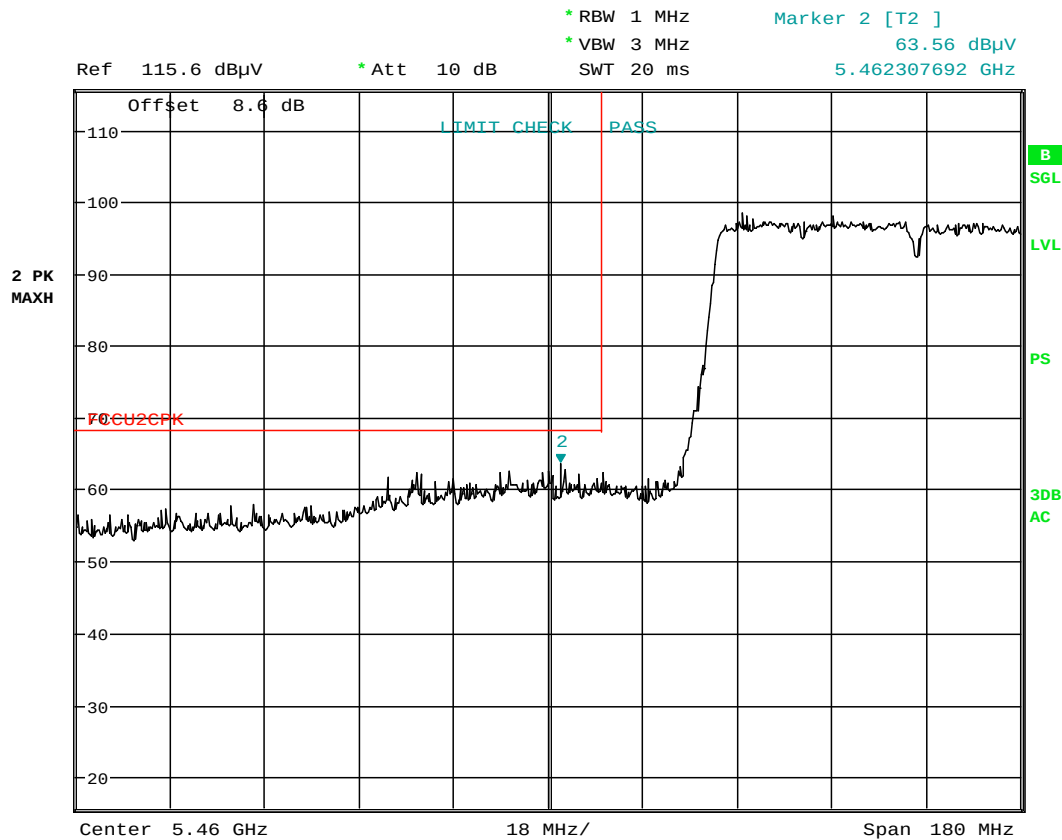
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Antenna-3 Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.2)(b.3) \$15.205 \$15.209



Date: 28.MAR.2017 12:30:19

Plot 7-228. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 186 of 227

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7.6.13 Antenna-4 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

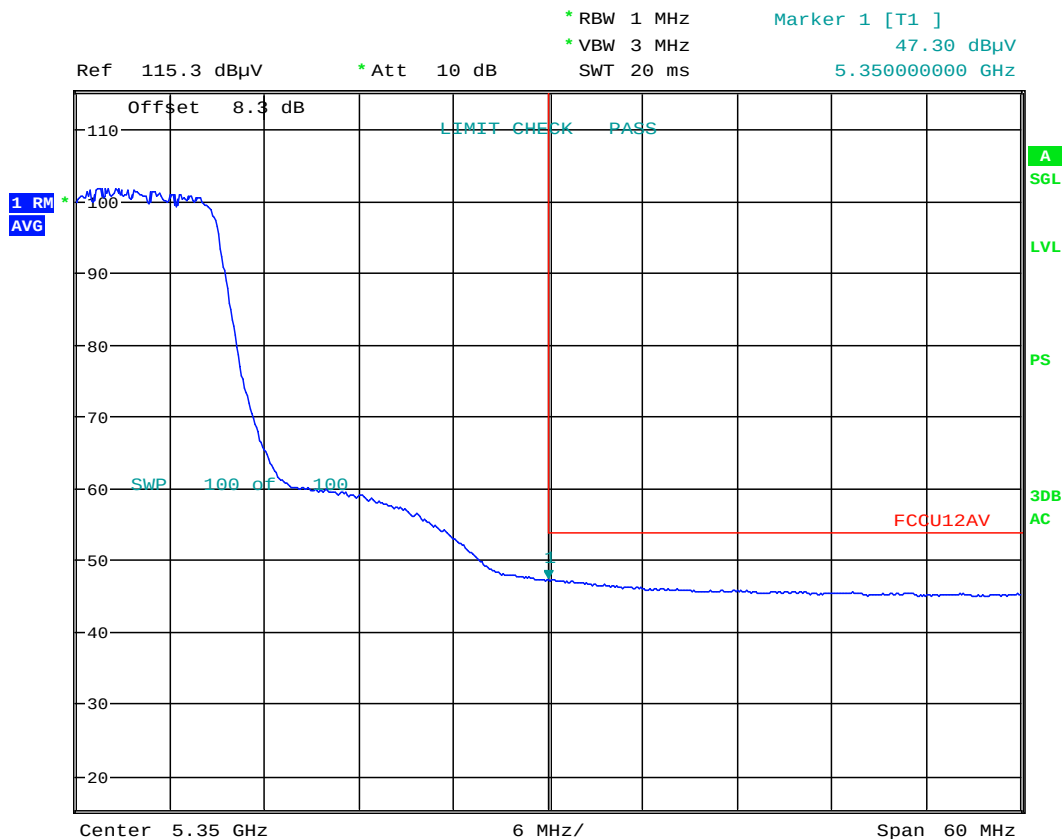
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



Date: 28.MAR.2017 12:58:05

Plot 7-229. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 187 of 227	

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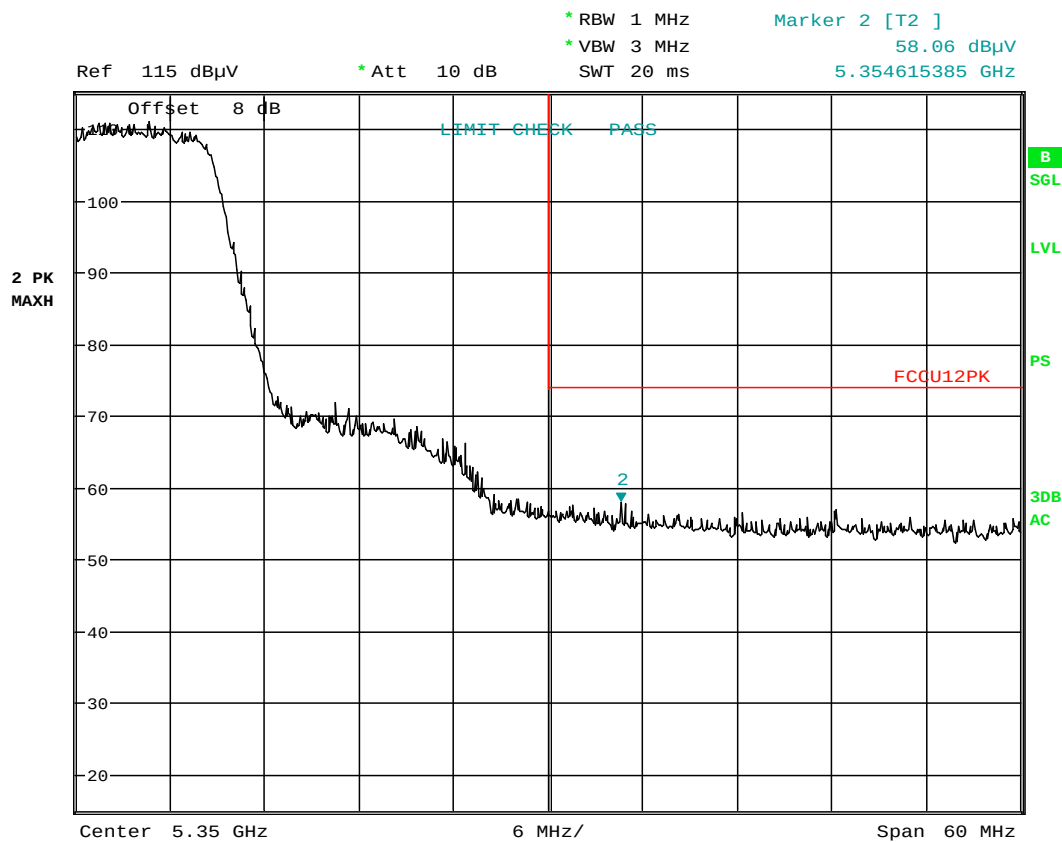
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Antenna-4 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 12:58:32

Plot 7-230. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 188 of 227

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Antenna-4 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

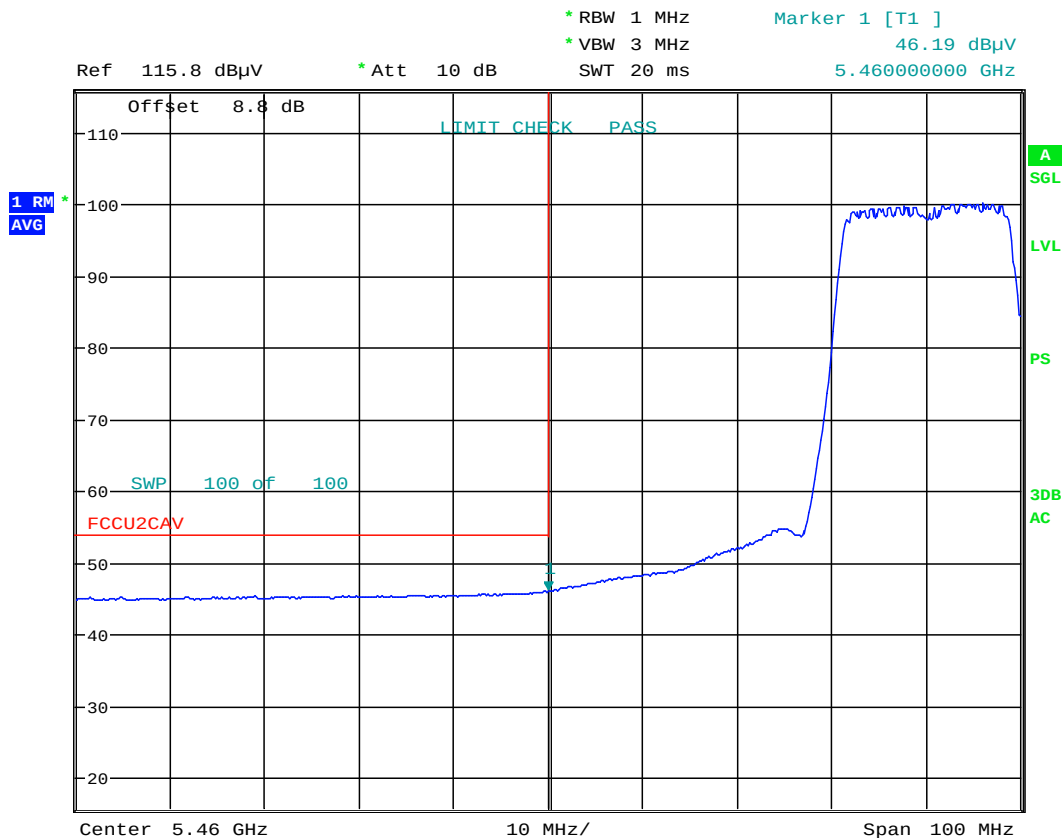
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100



Date: 28.MAR.2017 14:54:07

Plot 7-231. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 189 of 227

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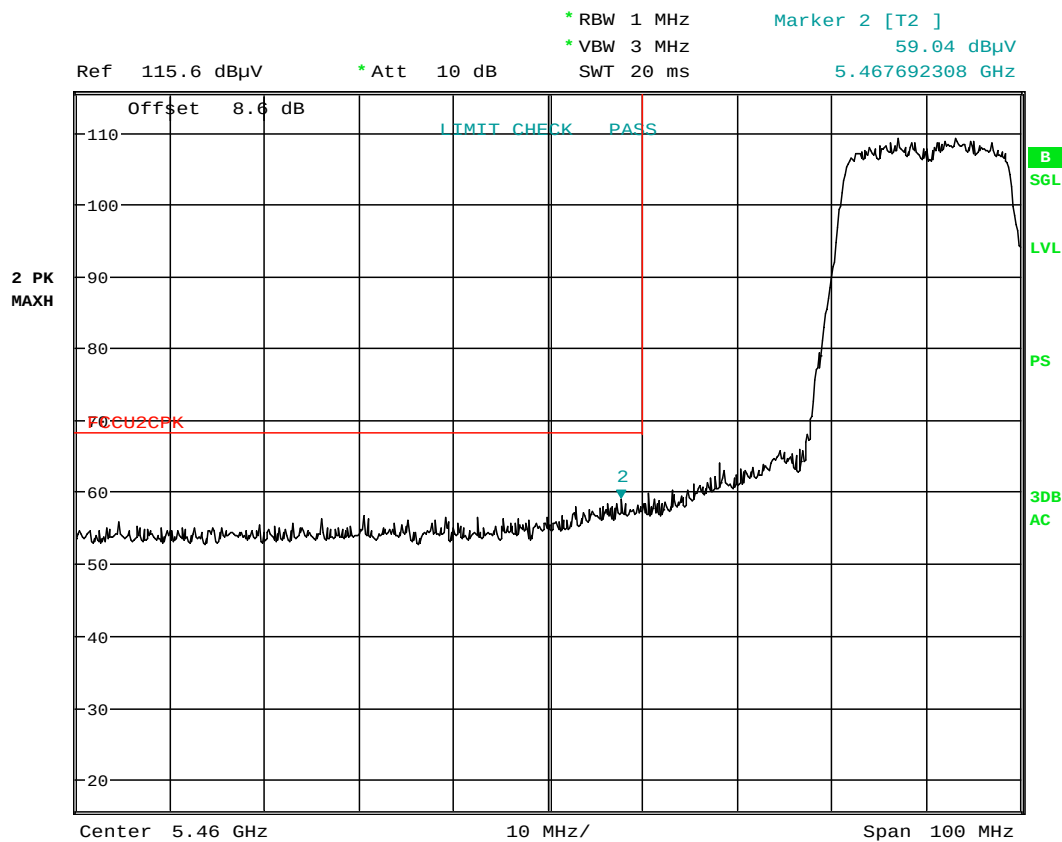
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Antenna-4 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



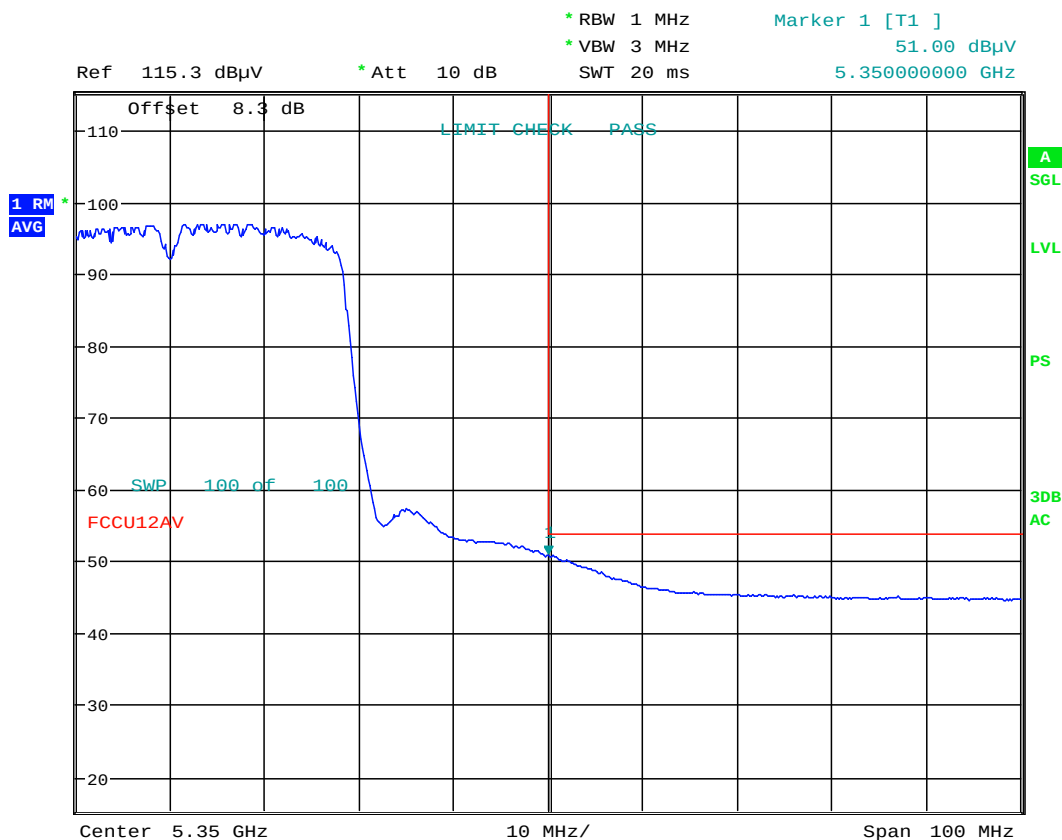
Date: 28.MAR.2017 14:54:32

Plot 7-232. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 190 of 227

7.6.14 Antenna-4 Radiated Band Edge Measurements (40MHz BW)

Worst Case Mode:	<u>802.11n (40MHz)</u>
Worst Case Transfer Rate:	<u>MCS0</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>5310MHz</u>
Channel:	<u>62</u>



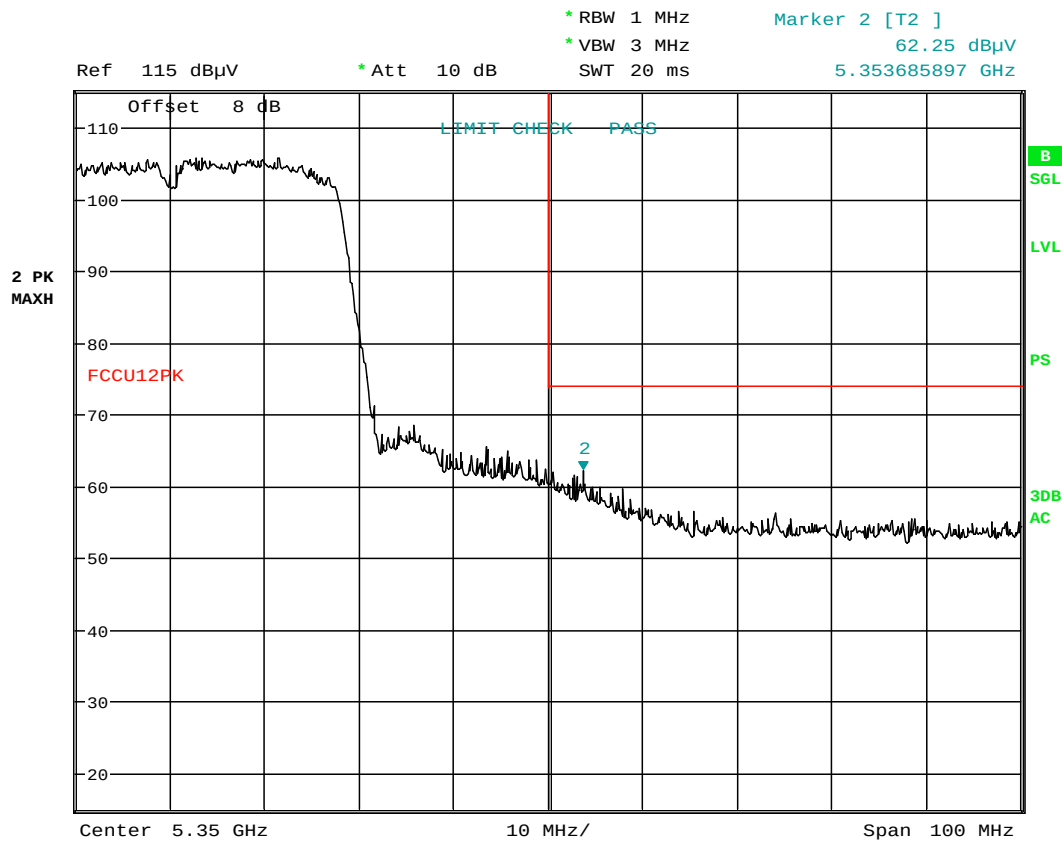
Date: 28.MAR.2017 13:00:39

Plot 7-233. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530	 FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) 		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 191 of 227

Antenna-4 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 13:00:54

Plot 7-234. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 192 of 227

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Antenna-4 Radiated Band Edge Measurements (40MHz BW) **§15.407(b.2)(b.3) §15.205 §15.209**

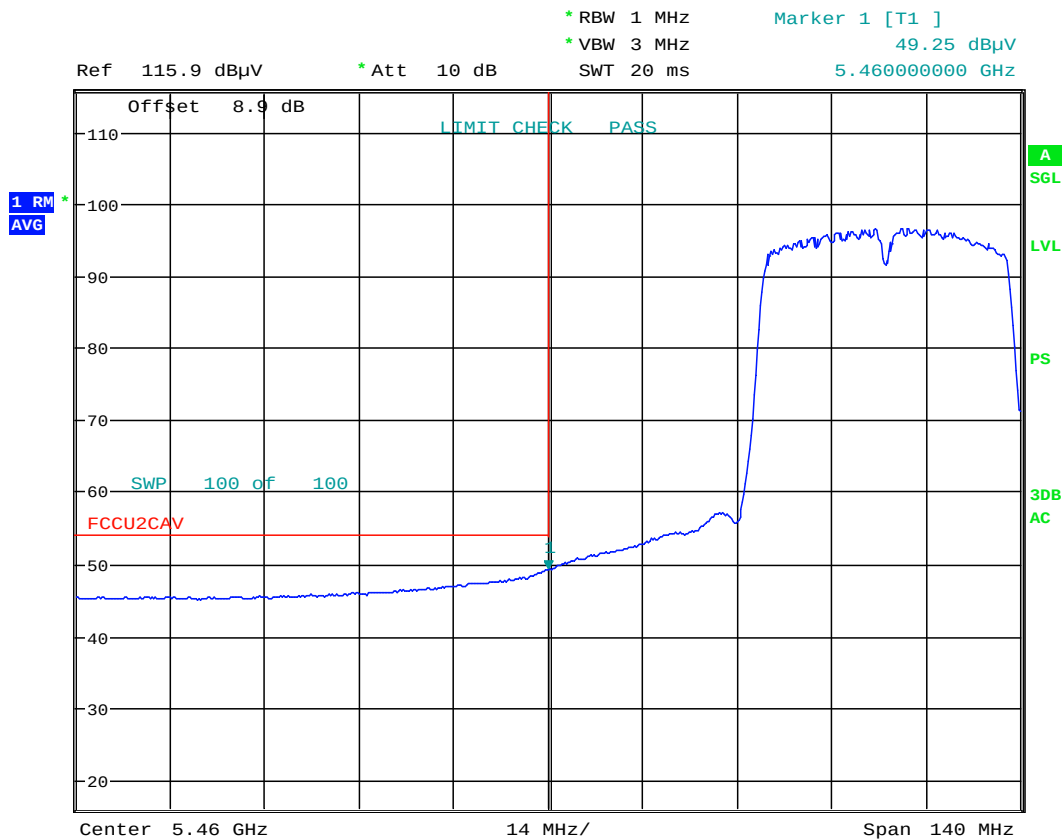
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



Date: 28.MAR.2017 14:51:17

Plot 7-235. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 193 of 227

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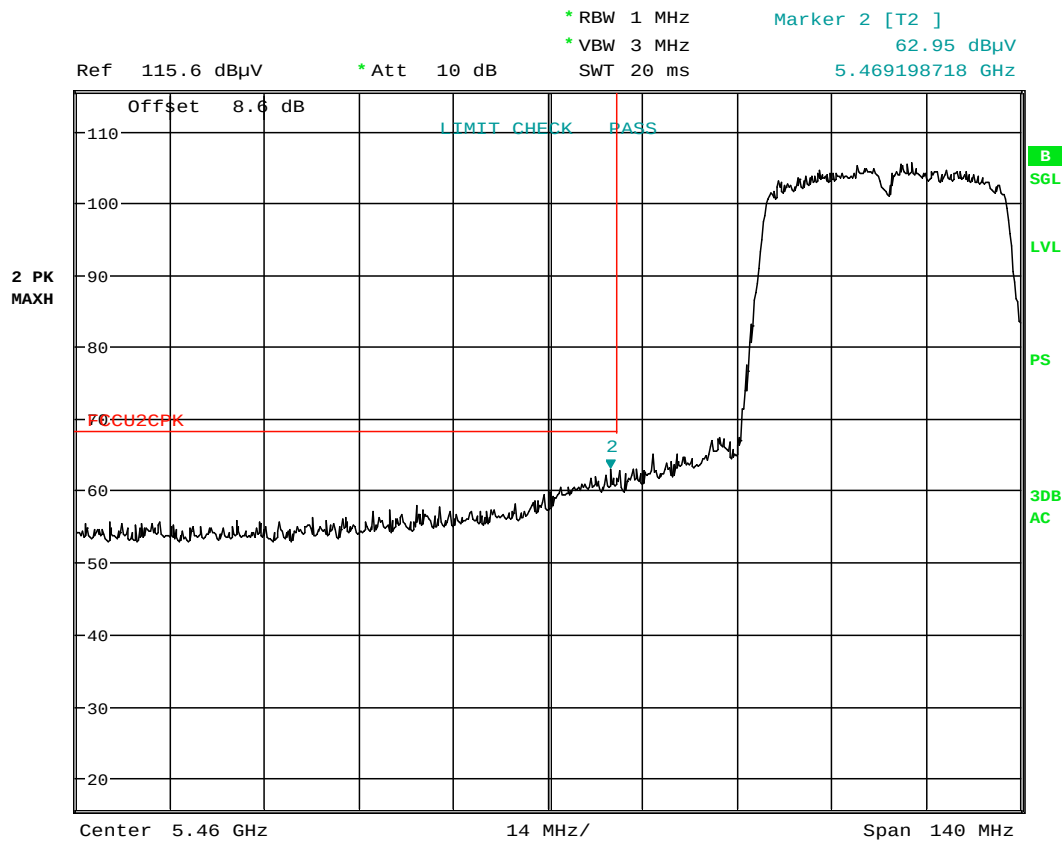
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Antenna-4 Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.2)(b.3) \$15.205 \$15.209



Date: 28.MAR.2017 14:51:39

Plot 7-236. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 194 of 227

7.6.15 Antenna-4 Radiated Band Edge Measurements (80MHz BW) §15.407(b.2)(b.3) §15.205 §15.209

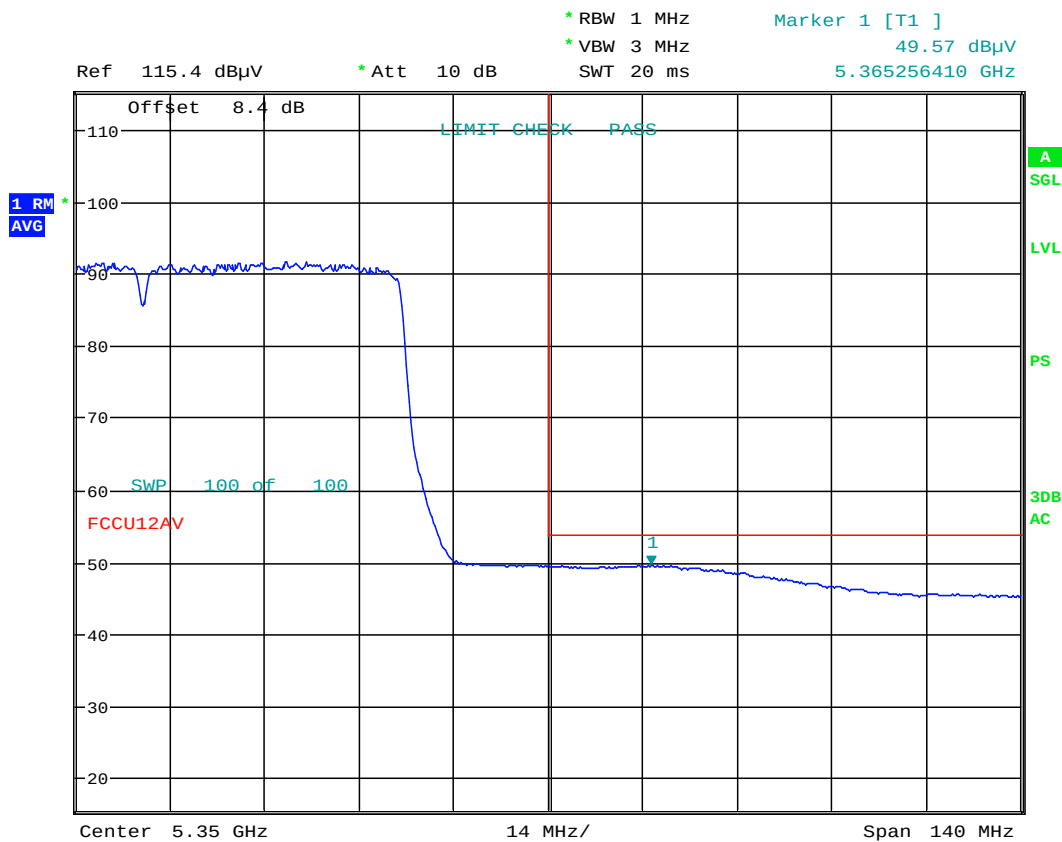
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



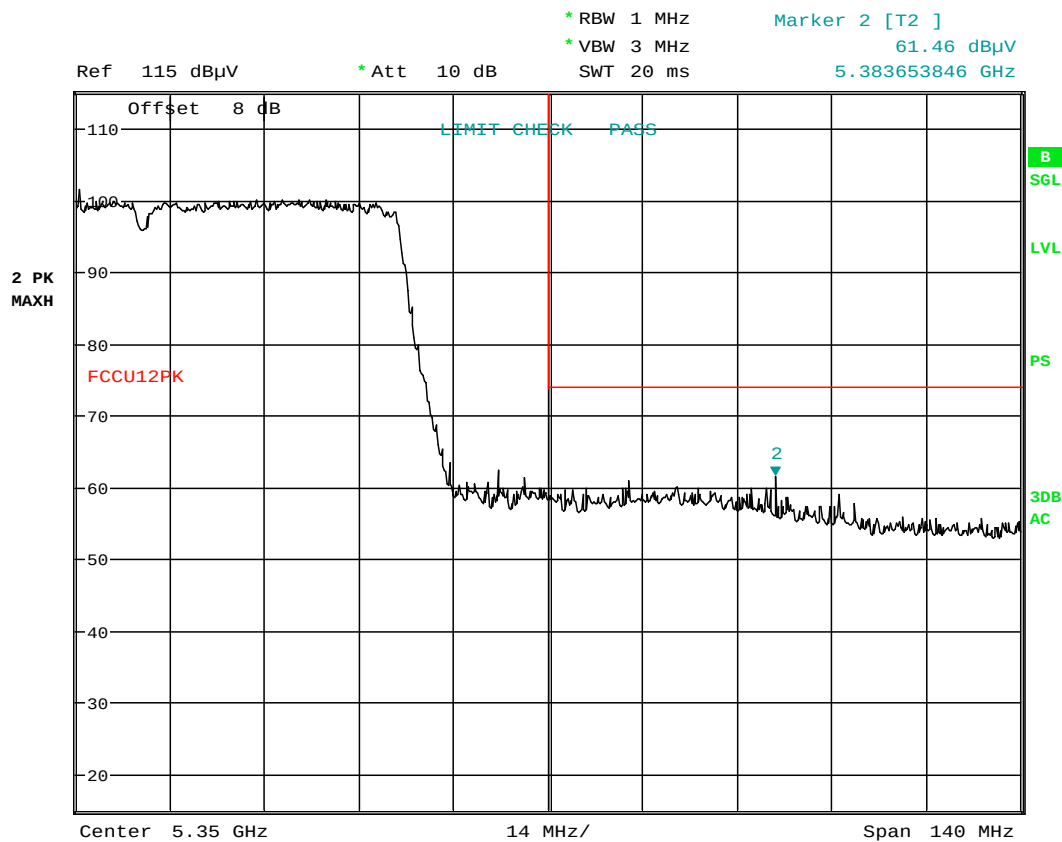
Date: 28.MAR.2017 13:02:49

Plot 7-237. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 195 of 227

Antenna-4 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 28.MAR.2017 13:03:09

Plot 7-238. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 196 of 227

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Antenna-4 Radiated Band Edge Measurements (80MHz BW) **§15.407(b.2)(b.3) §15.205 §15.209**

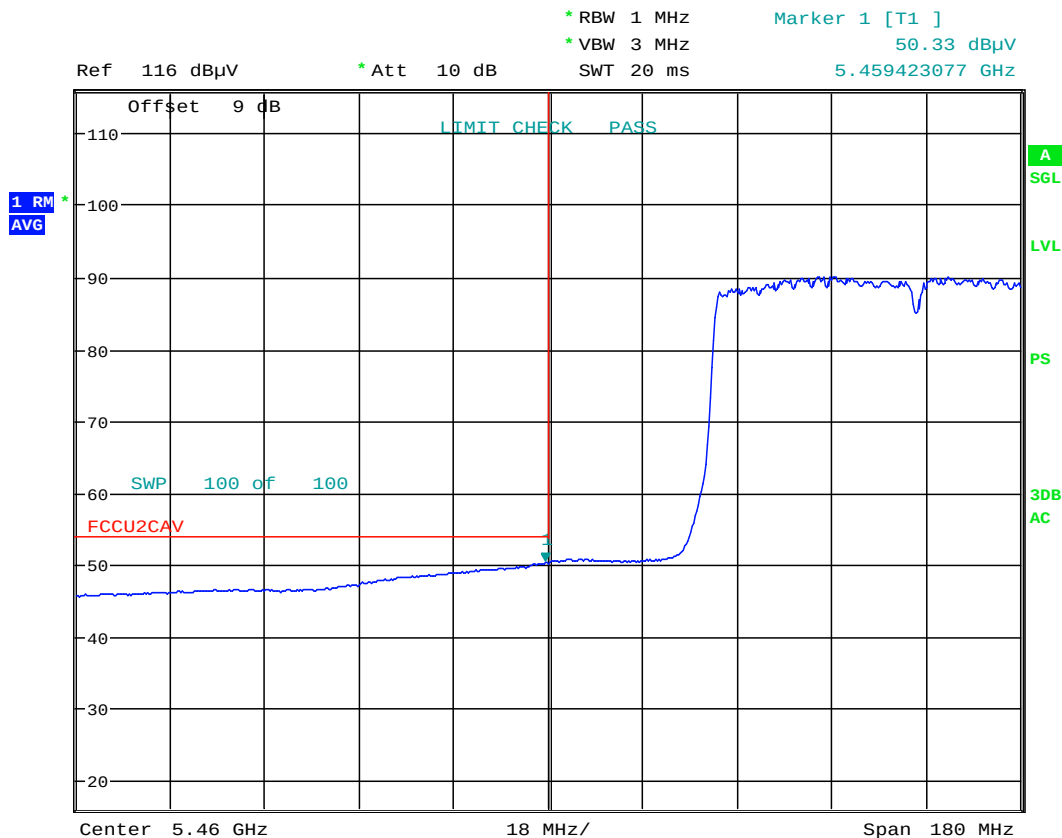
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



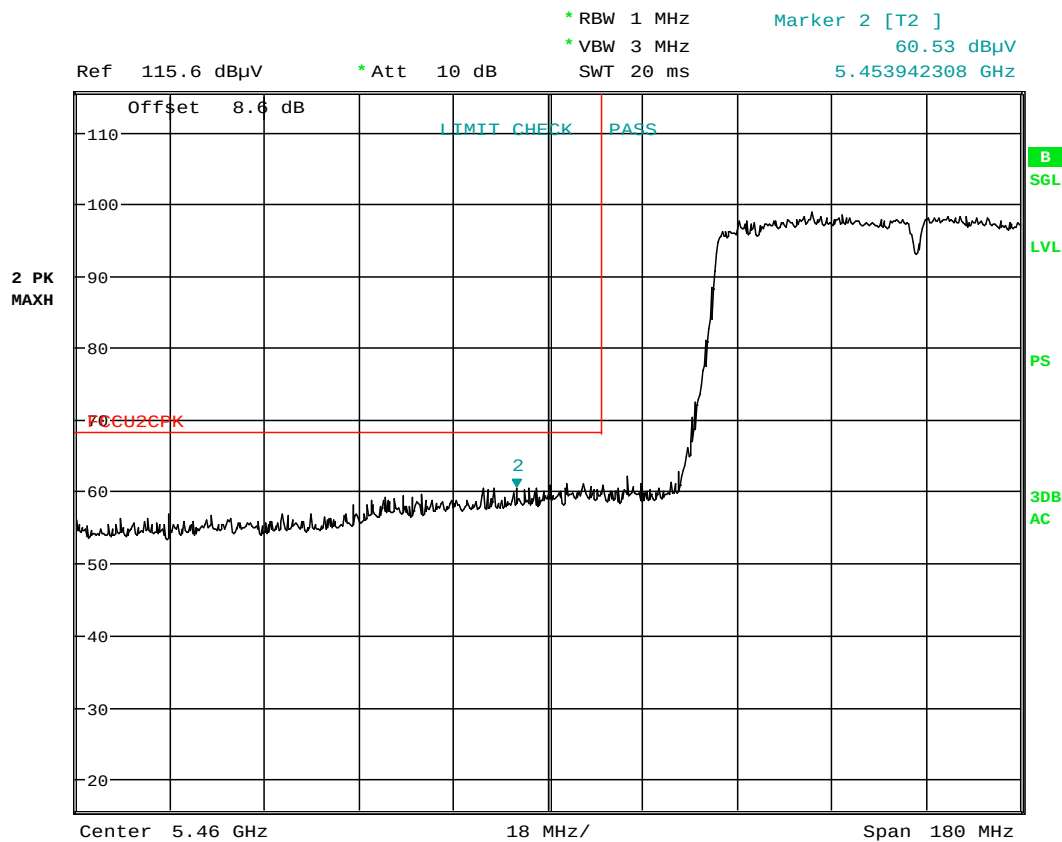
Date: 28.MAR.2017 13:17:47

Plot 7-239. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 197 of 227	

Antenna-4 Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.2)(b.3) \$15.205 \$15.209



Date: 28.MAR.2017 13:18:13

Plot 7-240. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 198 of 227

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7.6.16 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



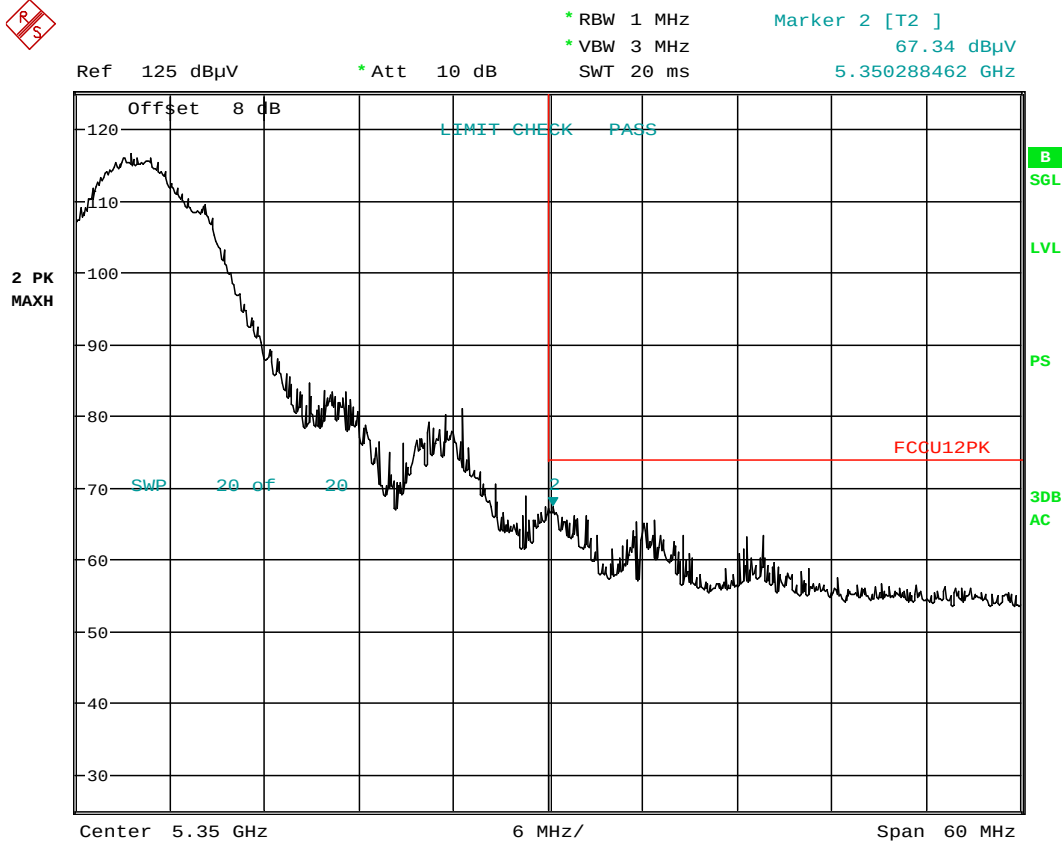
Date: 5.APR.2017 10:15:06

Plot 7-241. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 199 of 227

MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 5.APR.2017 10:17:16

Plot 7-242. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 200 of 227	

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MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

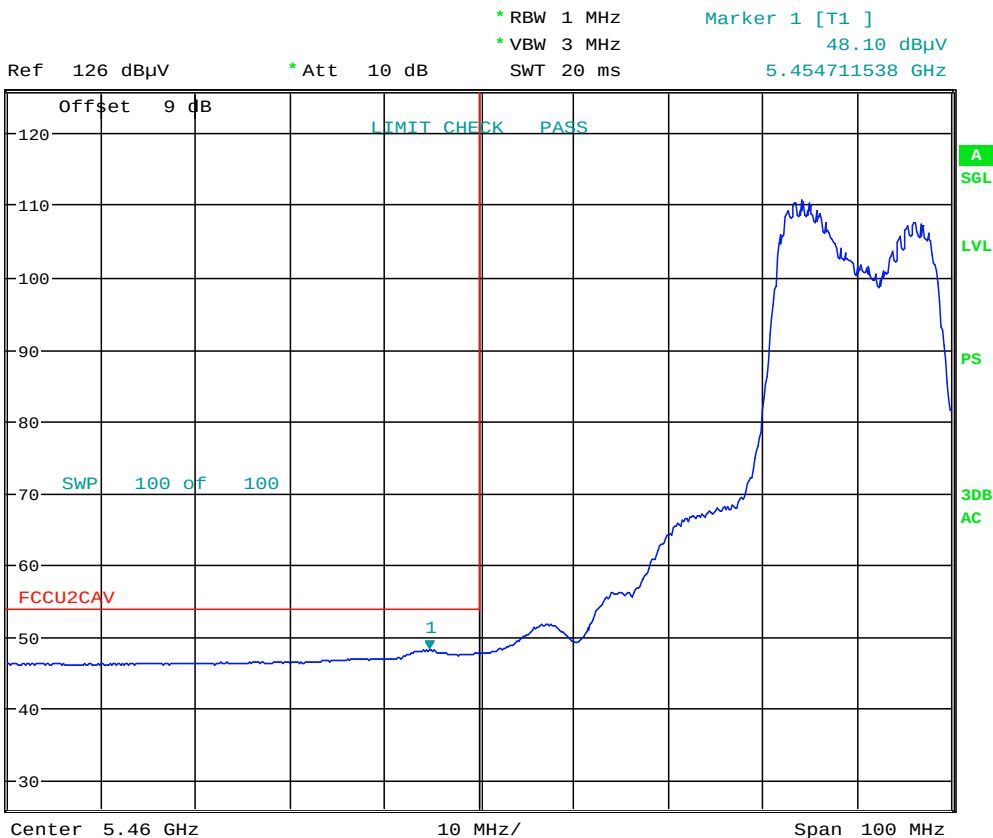
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100



Date: 5.APR.2017 11:00:25

Plot 7-243. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 201 of 227

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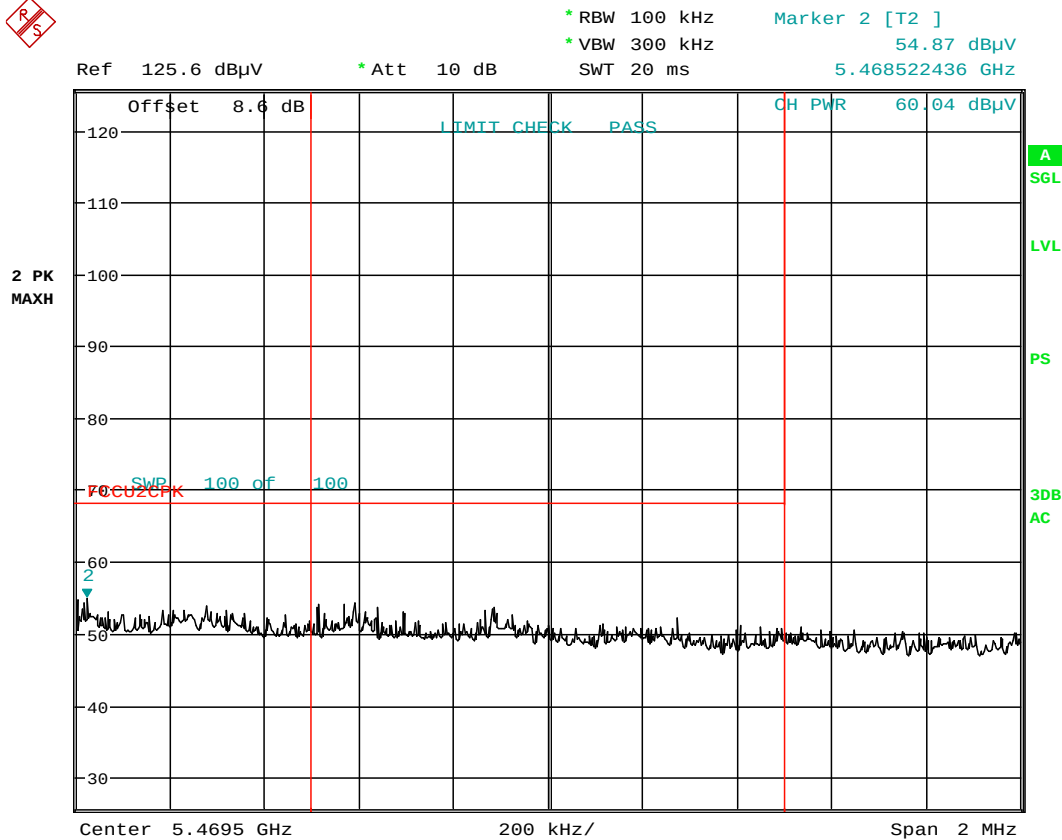
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MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 5.APR.2017 10:35:31

Plot 7-244. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point			Page 202 of 227

7.6.17 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

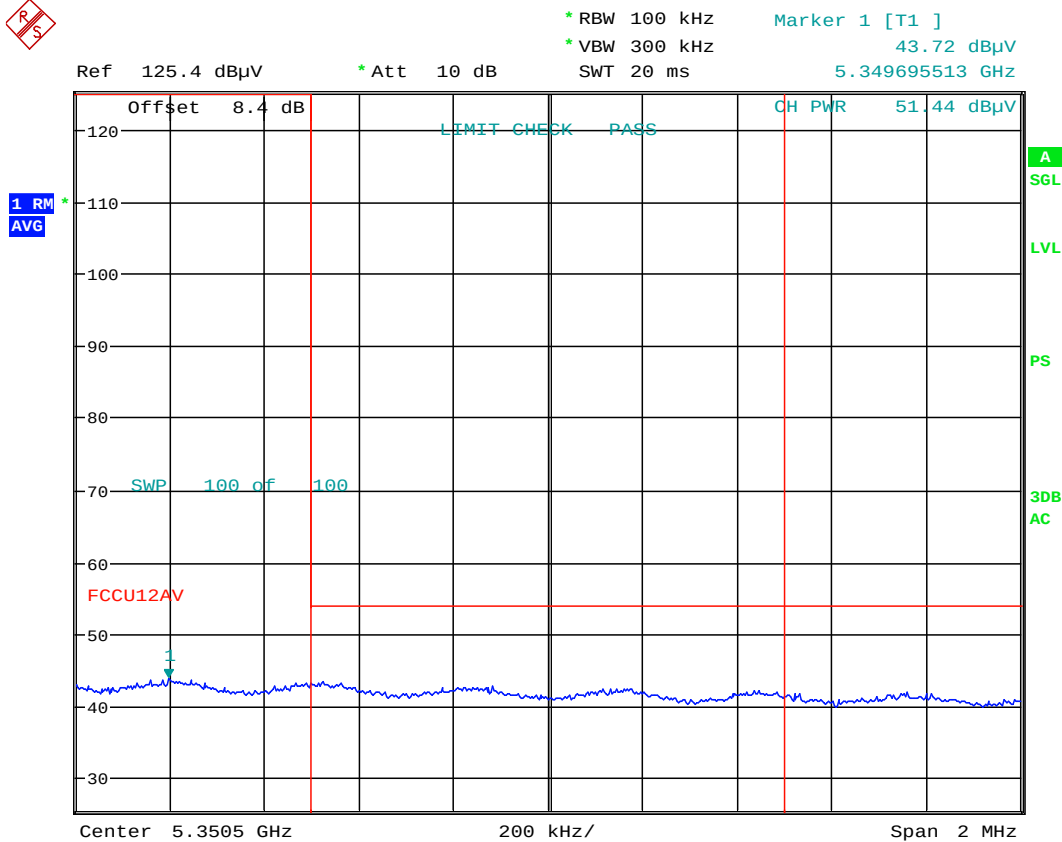
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



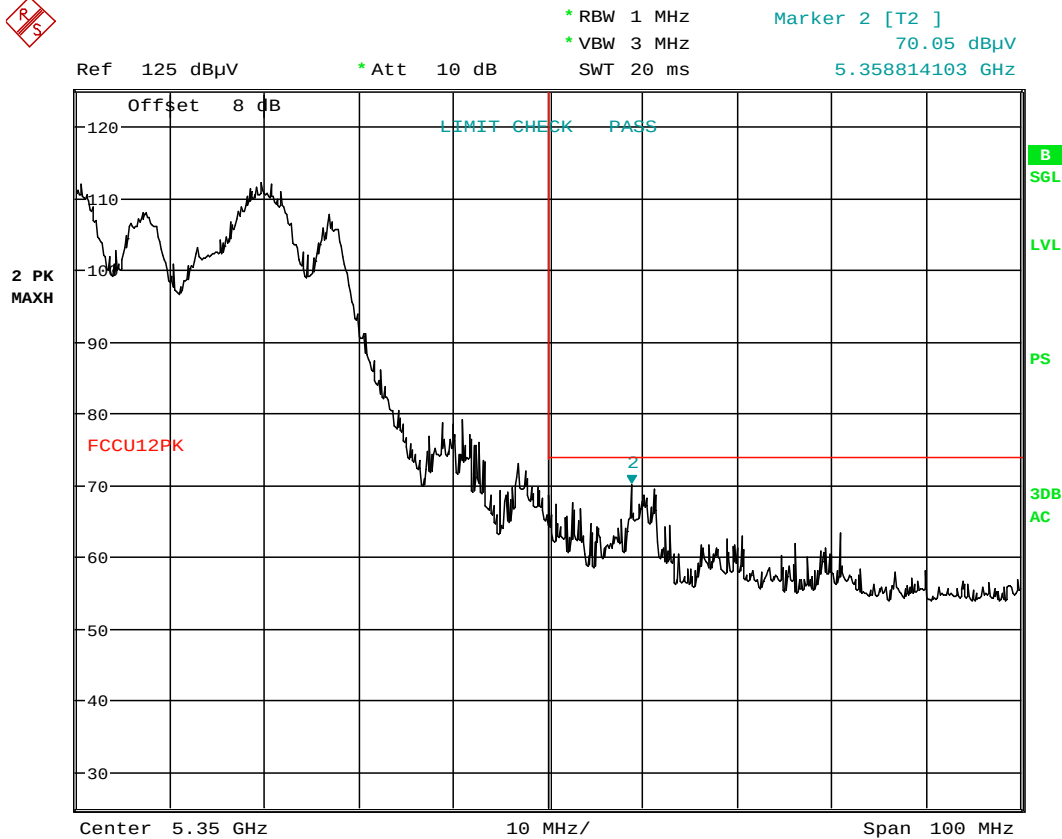
Date: 5.APR.2017 11:12:37

Plot 7-245. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 203 of 227

MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 5.APR.2017 11:13:26

Plot 7-246. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 204 of 227

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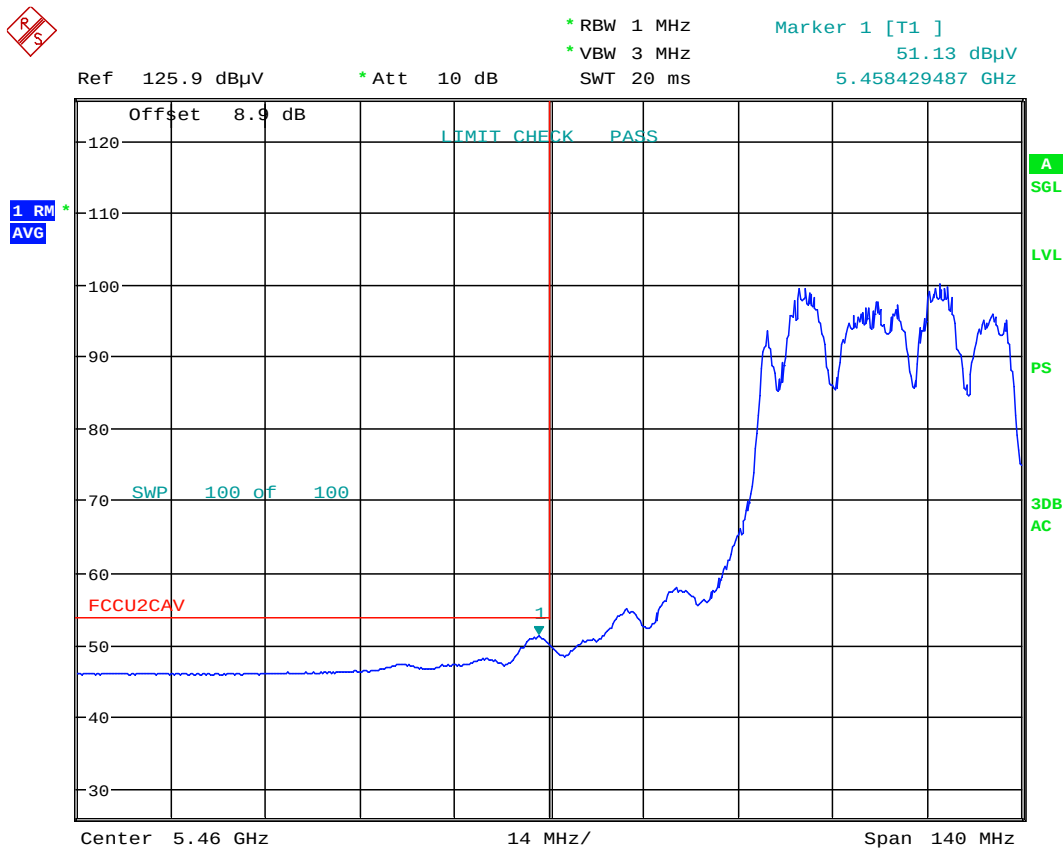
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MIMO Radiated Band Edge Measurements (40MHz BW)
§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode:	<u>802.11n (40MHz)</u>
Worst Case Transfer Rate:	<u>MCS8</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>5510MHz</u>
Channel:	<u>102</u>

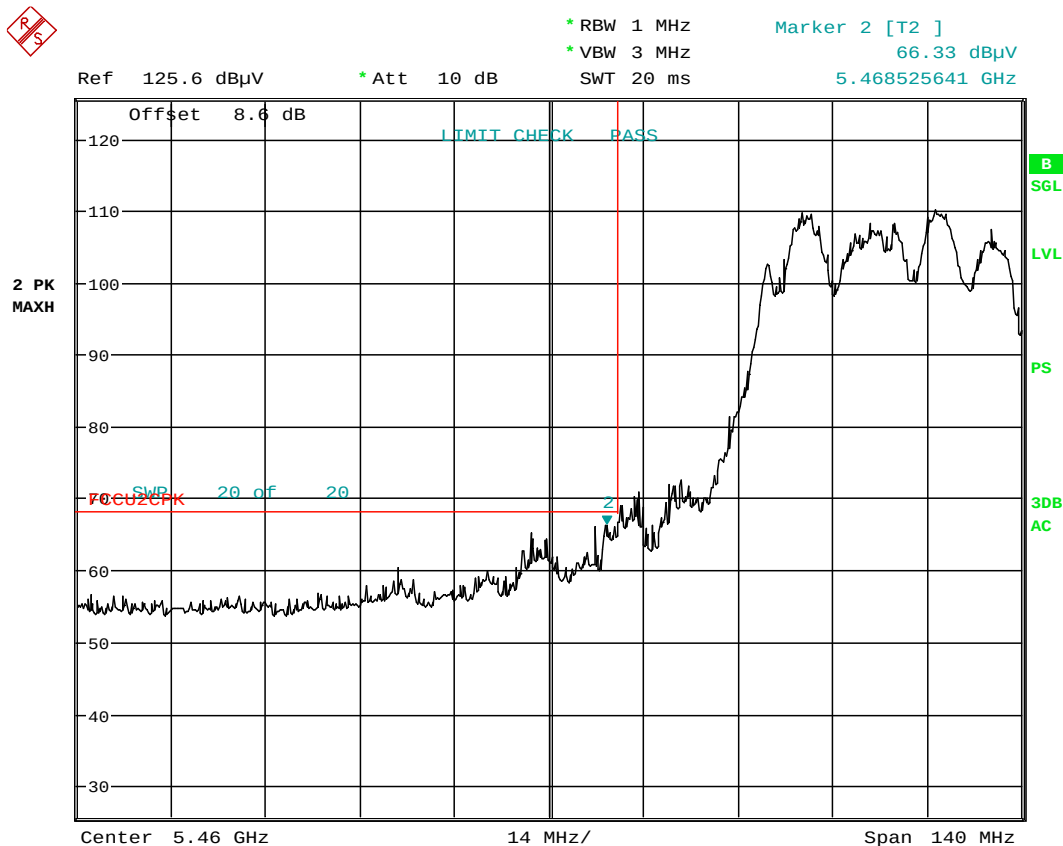


Date: 5.APR.2017 11:22:22

Plot 7-247. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530	 FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) 		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 205 of 227

MIMO Radiated Band Edge Measurements (40MHz BW)
§15.407(b.1)(b.2) §15.205 §15.209



Date: 5.APR.2017 11:24:56

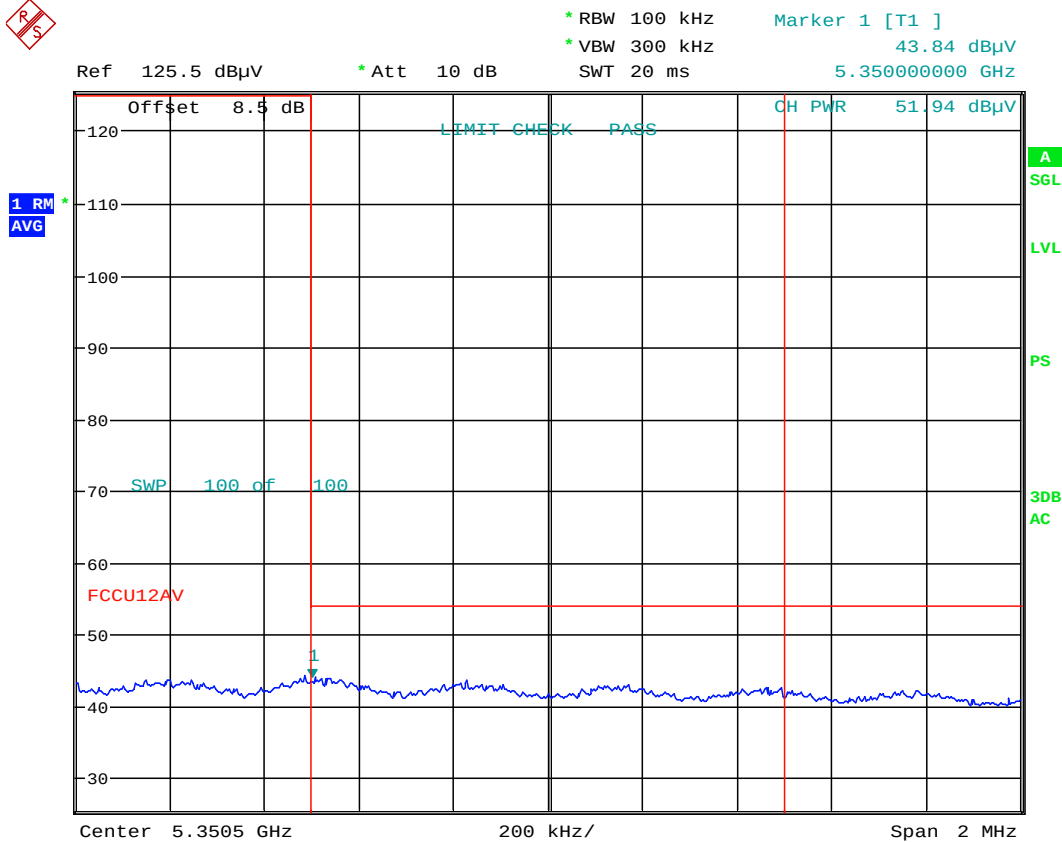
Plot 7-248. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	 FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) 		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 206 of 227

7.6.18 MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5290MHz
Channel: 58



Date: 5.APR.2017 11:40:37

Plot 7-249. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 207 of 227

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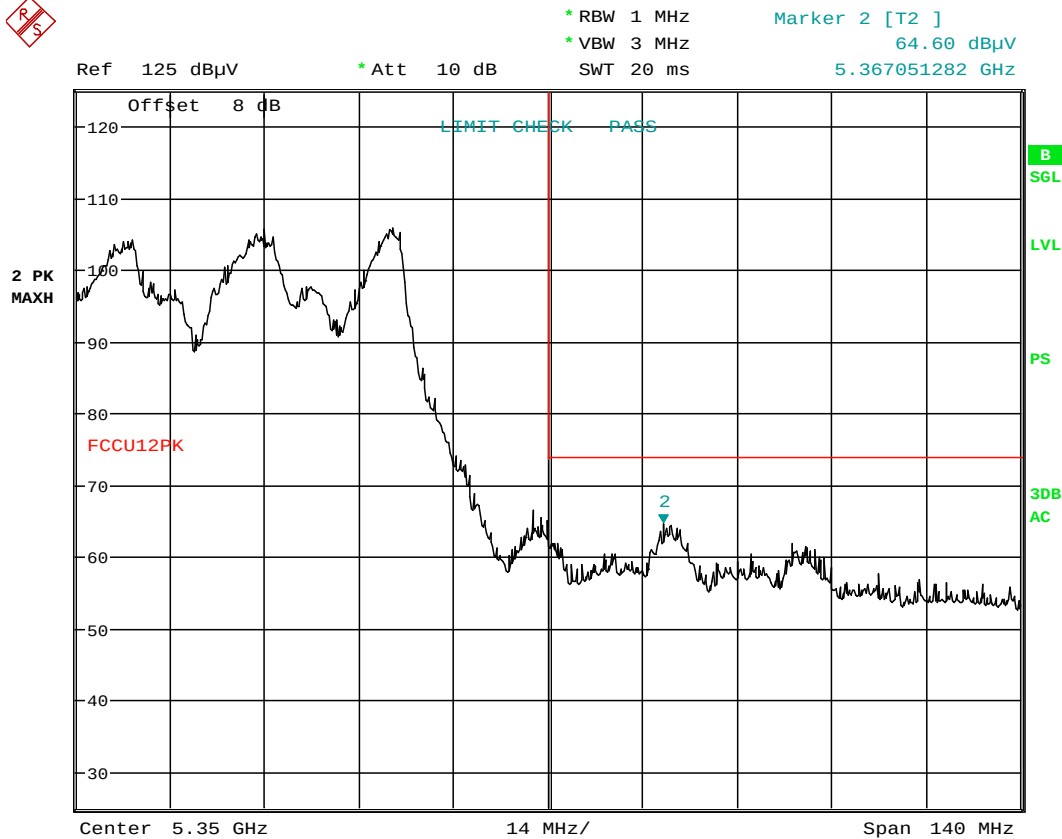
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MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 5.APR.2017 11:41:01

Plot 7-250. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 208 of 227

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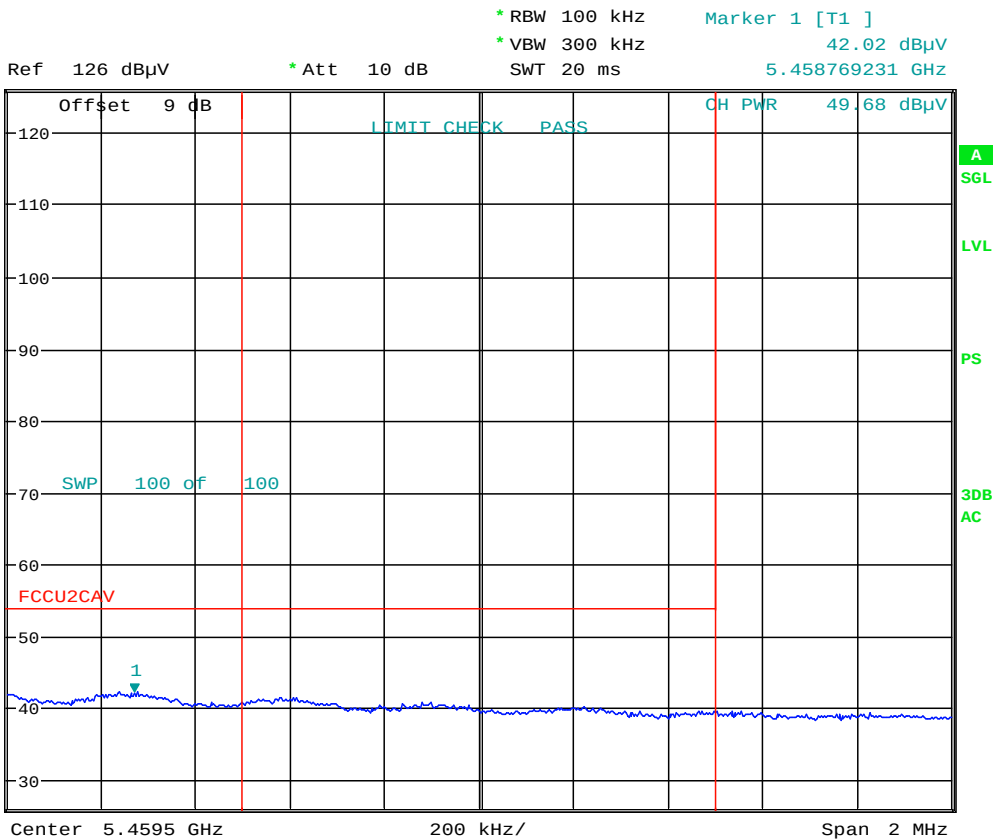
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MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106



Date: 5.APR.2017 11:48:55

Plot 7-251. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 209 of 227

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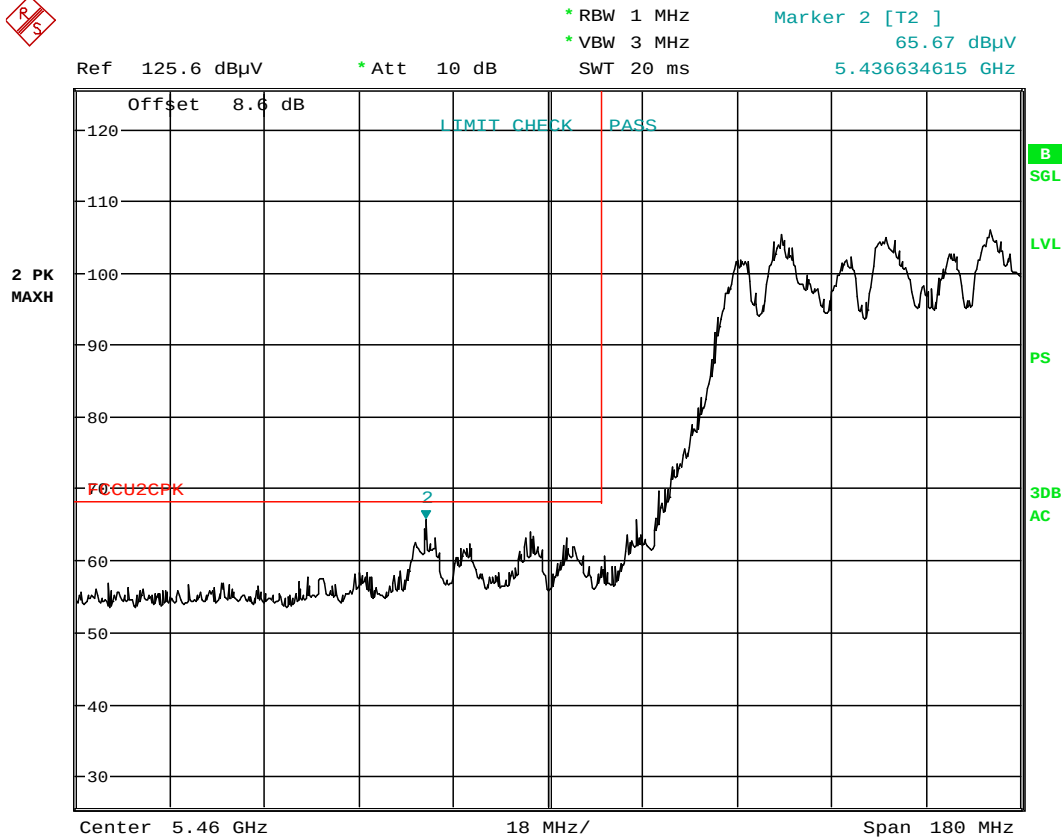
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MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 5.APR.2017 11:49:16

Plot 7-252. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
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7.7 Line-Conducted Test Data

§15.407

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-55. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

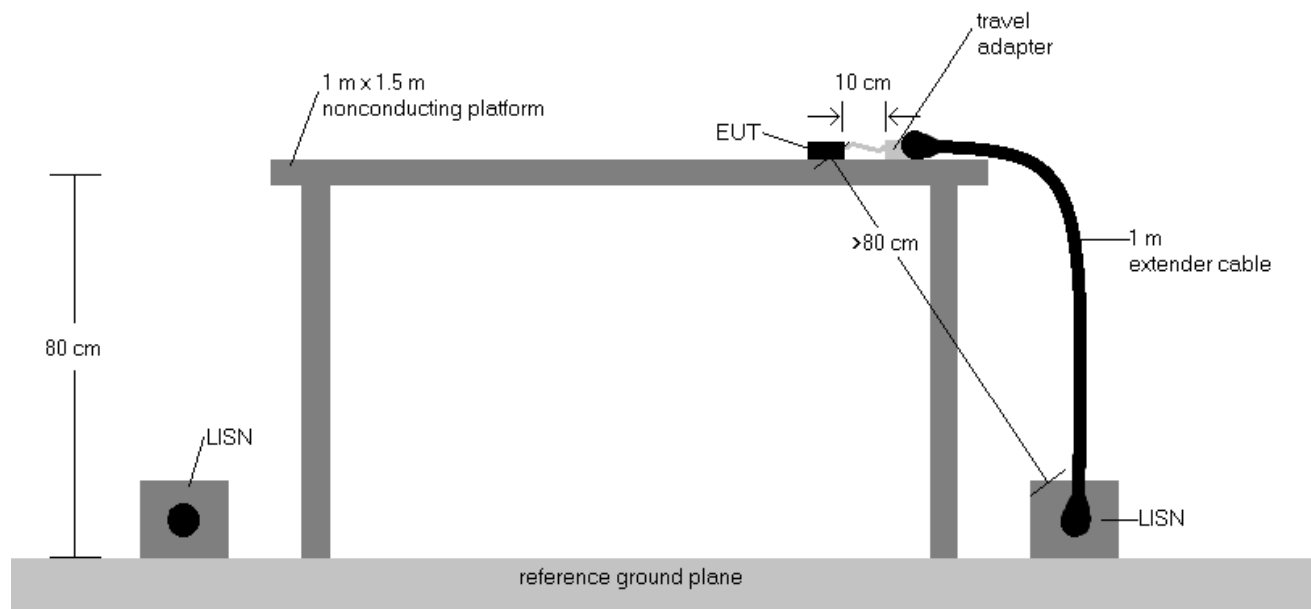


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207.
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
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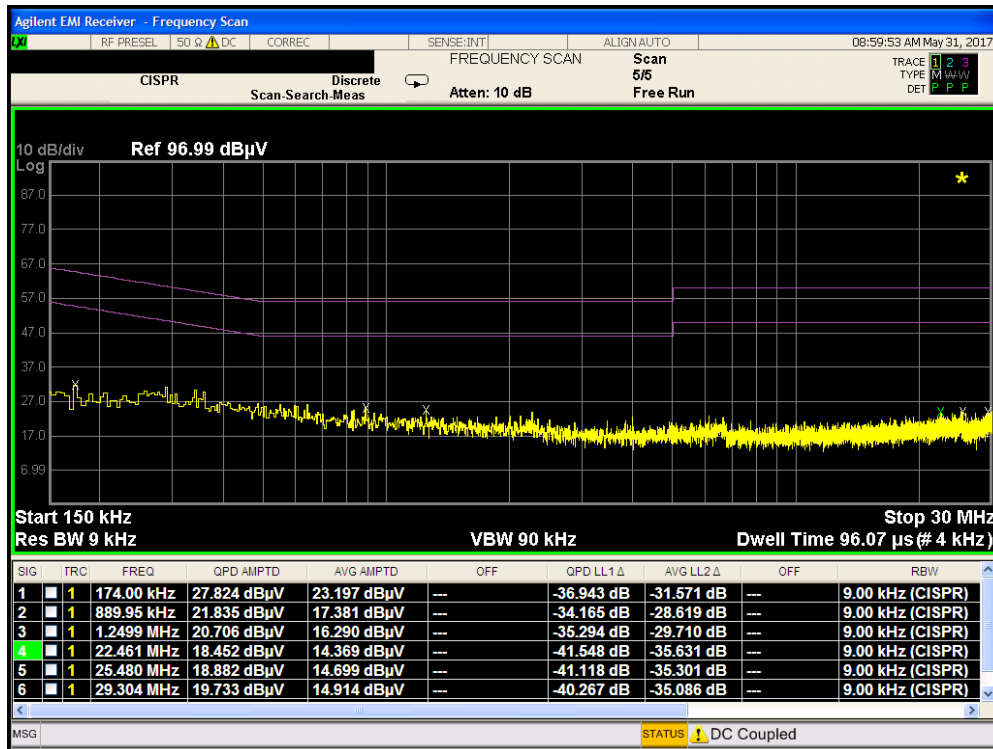
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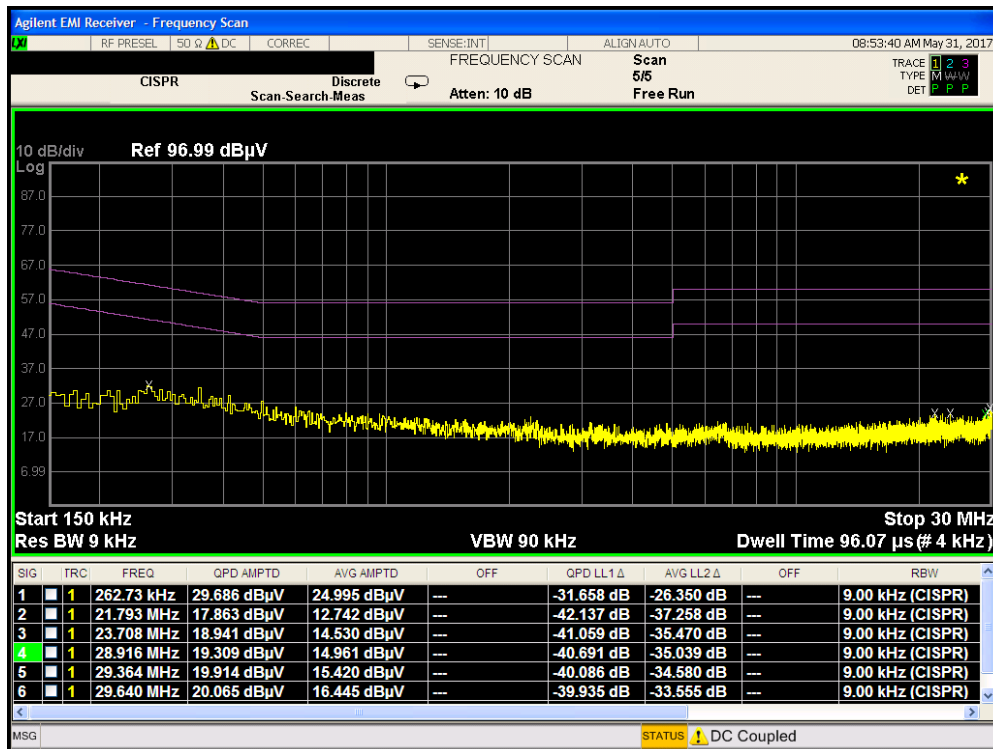
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Line-Conducted Test Data

\$15.407



Plot 7-253. Line Conducted Plot with 802.11a UNII Band 2A (L1)



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Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 213 of 227

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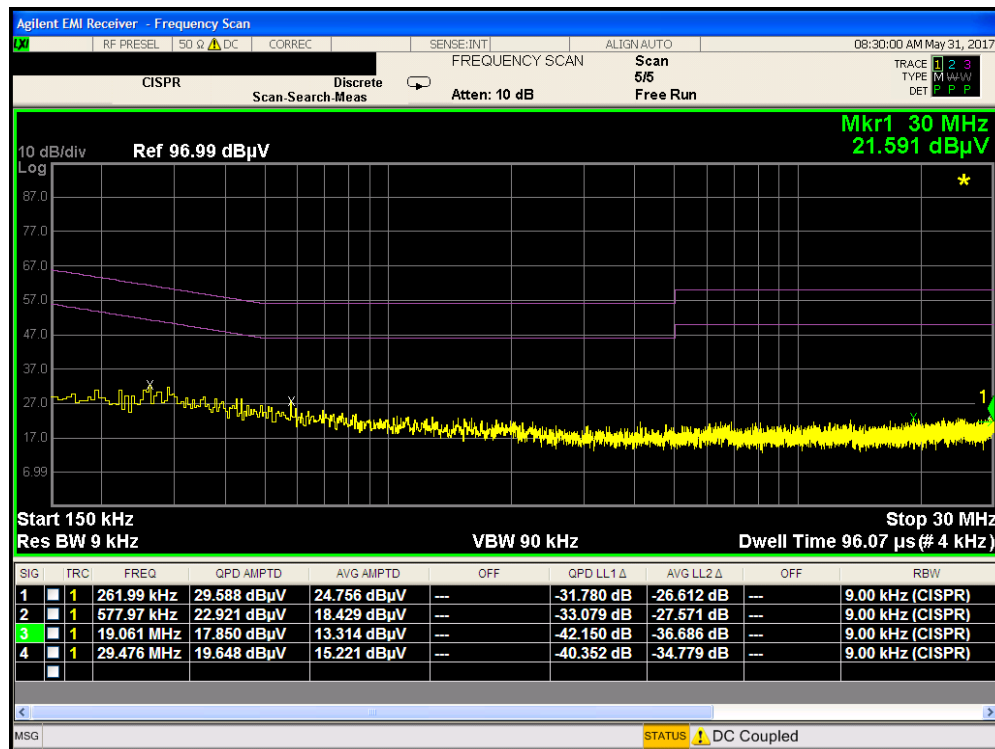
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Plot 7-254. Line Conducted Plot with 802.11a UNII Band 2A (N)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 214 of 227	

Line-Conducted Test Data

\$15.407



Plot 7-255. Line Conducted Plot with 802.11a UNII Band 2C (L1)

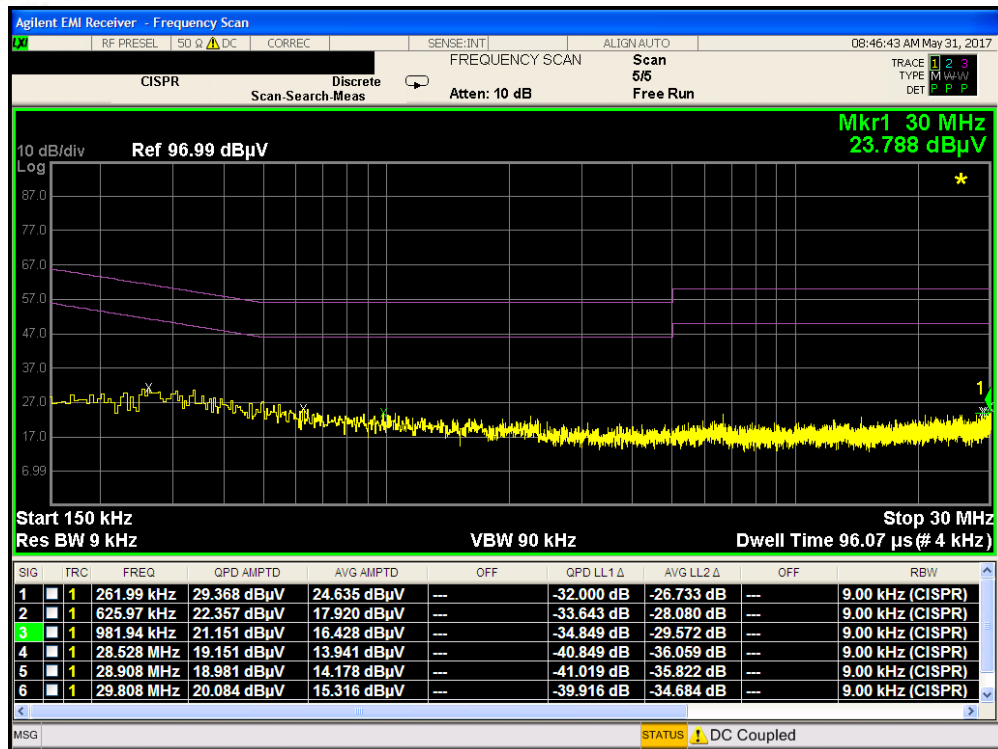
FCC ID: A3LETWV530			FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point			Page 215 of 227

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Plot 7-256. Line Conducted Plot with 802.11a UNII Band 2C (N)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point			Page 216 of 227

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Indoor Access Point FCC ID: A3LETWV530** is in compliance with Part 15E of the FCC Rules.

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 217 of 227

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APPENDIX A. 802.11A DUAL TX

A.1 Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)					
15.407 (a.2)	Maximum Conducted Output Power	Maximum conducted powers must meet limits detailed in 15.407(a)	CONDUCTED	PASS	Section A.2
15.407 (a.2), (5)	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407(a)		PASS	Section A.3
15.205, 15.407(5),(6)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS	Section A.4

Table A.1-1. Summary of Test Results

Notes:

1. This device employs dual transmission in 802.11a and 802.11g modes using Cyclic Delay Diversity. For all test cases, the device was set to transmit from four antennas simultaneously. The data in this section demonstrates compliance to the dual-transmission requirements specified in KDB 662911 v02r01.
2. All data found in this section is compiled from plots found in the main body of this test report.
3. Since this device is able to transmit the same data through four of its antennas in a given symbol period, then, by the definition specified in KDB 662911 v02r01 Section F)1), the transmission symbols are correlated.
4. For CDD operation where $N_{ss} = 1$, the array gain for power density measurements is equal to $10\log(N_{ANT}/N_{SS})$ dB and the array gain for power measurements is 0dB.

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
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A.2 Output Power Measurement

§15.407 (a.2)

Test Overview

Using the “Measure and Sum” technique, the measured conducted power values were summed in linear power units then converted back to dBm. Original measured values are found in Section 7.4 of this report.

Freq [MHz]	Channel	Detector	Directional Gain [dBi]	5GHz (20MHz) Conducted Power [dBm]					Max Permissible Conducted Power [dBm]	Adjusted Limit [dBm]	Margin [dB]
				IEEE Transmission Mode							
				ANT1	ANT2	ANT3	ANT4	MIMO			
5260	52	AVG	9.19	12.67	12.41	11.71	12.64	18.39	23.98	20.79	-2.40
5280	56	AVG	9.19	12.65	12.47	11.89	12.50	18.41	23.98	20.79	-2.38
5300	60	AVG	9.19	12.56	12.54	11.81	12.67	18.43	23.98	20.79	-2.36
5320	64	AVG	9.19	12.35	12.71	11.91	12.70	18.45	23.98	20.79	-2.34
5500	100	AVG	9.48	11.76	11.65	11.18	11.95	17.66	23.98	20.50	-2.84
5600	120	AVG	9.48	11.85	11.14	10.65	11.66	17.37	23.98	20.50	-3.13
5620	124	AVG	9.48	11.91	11.19	10.65	12.12	17.53	23.98	20.50	-2.97
5720	144	AVG	9.48	11.85	11.81	11.21	12.17	17.79	23.98	20.50	-2.71

Table A.2-1. Dual Tx 802.11a-mode Conducted Output Power Measurements

FCC ID: A3LETWV530				FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
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A.3 Power Spectral Density

§15.407 (a.2) (5)

Test Overview

Using the “Measure and Sum” technique, the measured conducted power density values were summed in linear power units then converted back to dBm. Original measured values are found in Section 7.5 of this report.

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Directional Gain [dBi]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Antenna-3 Power Density [dBm]	Antenna-4 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Adjusted Limit [dBm/MHz]	Margin [dB]	Pass / Fail
Band 2A	5260	52	a	6.5/7.2 (MCS0)	9.19	1.12	1.15	1.50	1.71	7.40	11.0	7.8	-0.41	Pass
	5280	56	a	6.5/7.2 (MCS0)	9.19	1.01	1.27	1.00	1.17	7.13	11.0	7.8	-0.68	Pass
	5320	64	a	6.5/7.2 (MCS0)	9.19	0.73	1.64	0.60	1.57	7.18	11.0	7.8	-0.63	Pass
Band 2C	5500	100	a	6.5/7.2 (MCS0)	9.40	0.37	0.95	0.63	1.00	6.77	11.0	7.60	-0.83	Pass
	5600	120	a	6.5/7.2 (MCS0)	9.40	0.53	0.52	0.12	0.64	6.48	11.0	7.60	-1.12	Pass
	5720	144	a	6.5/7.2 (MCS0)	9.48	0.33	0.42	0.61	1.14	6.66	11.0	7.52	-0.86	Pass

Table A.3-1.802.11a Dual Tx Conducted Power Density Measurements

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
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A.4 Dual Tx Radiated Restricted Band Edge Measurements

§15.407(b.2)(b.3) §15.205 §15.209

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting on both outputs in 802.11a mode.

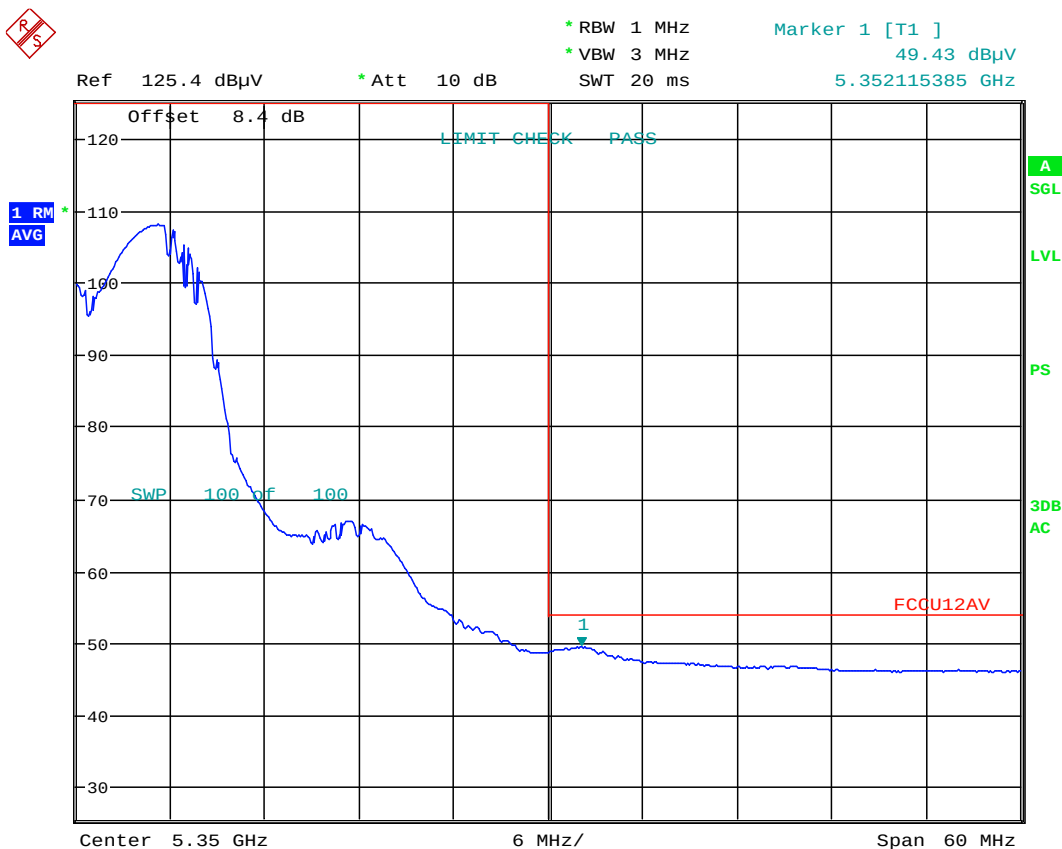
Worst Case Mode: 802.11a (20MHz)

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



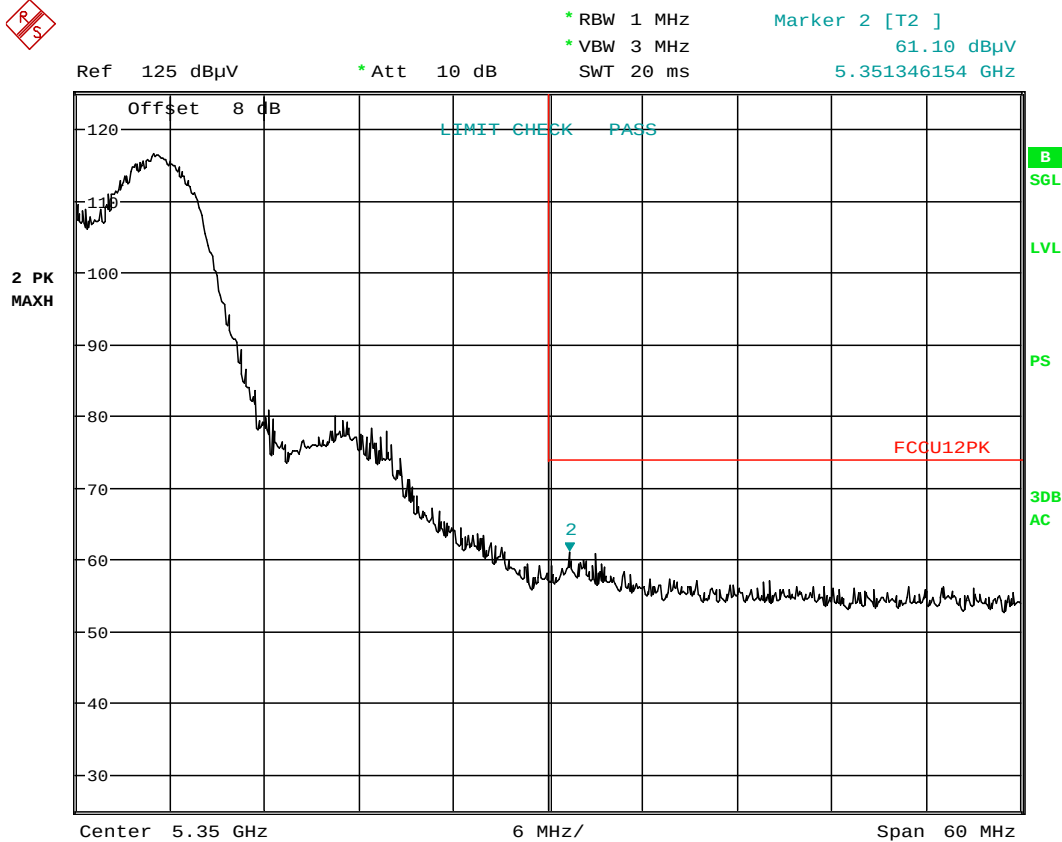
Date: 5.APR.2017 10:53:14

Plot A.4-1. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 221 of 227

Dual-Tx Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 5.APR.2017 10:53:33

Plot A.4-2. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 222 of 227

Dual-Tx Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209

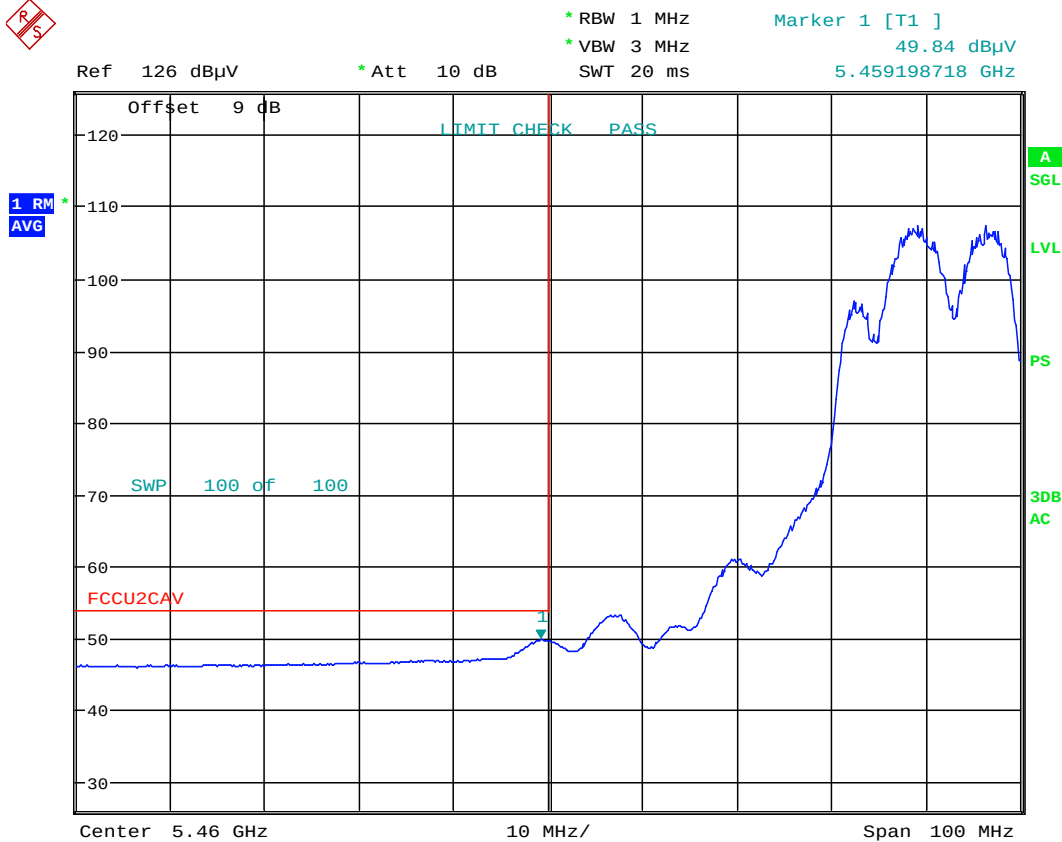
Worst Case Mode: 802.11a (20MHz)

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100



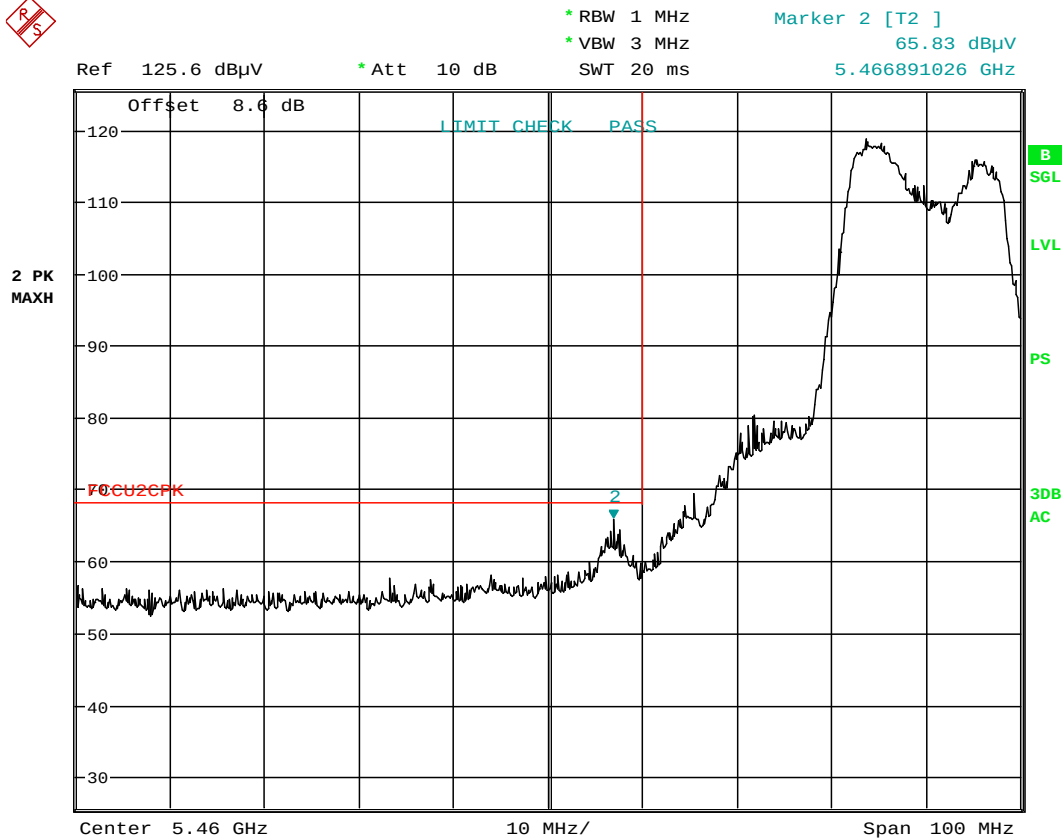
Date: 5.APR.2017 10:30:09

Plot A.4-3. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 223 of 227

Dual-Tx Radiated Band Edge Measurements (20MHz BW)

§15.407(b.2)(b.3) §15.205 §15.209



Date: 5.APR.2017 11:01:22

Plot A.4-4. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point		Page 224 of 227

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APPENDIX B. 80MHZ + 80MHZ TX

B.1 Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)					
15.205, 15.407(b.1),(5),(6)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	RADIATED	PASS	Section B.2

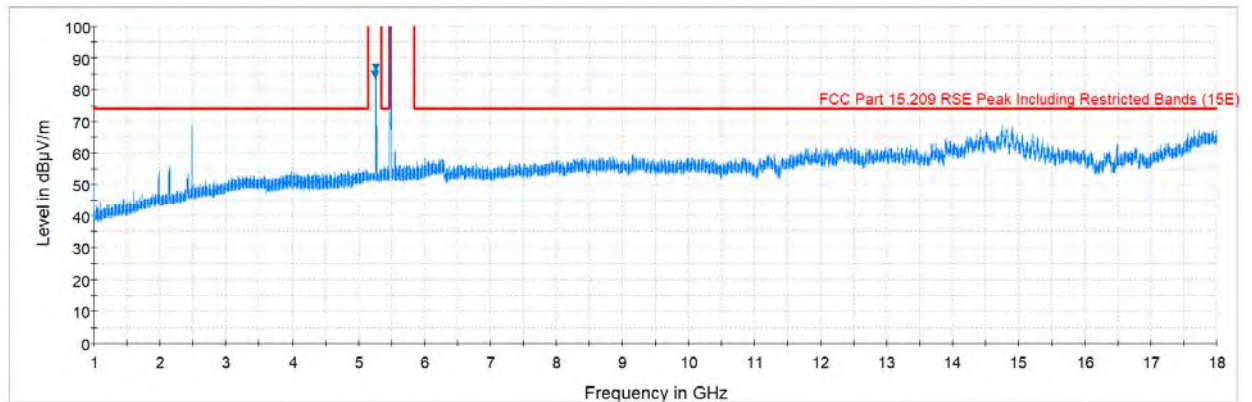
Table B.1-1. Summary of Test Results

Notes:

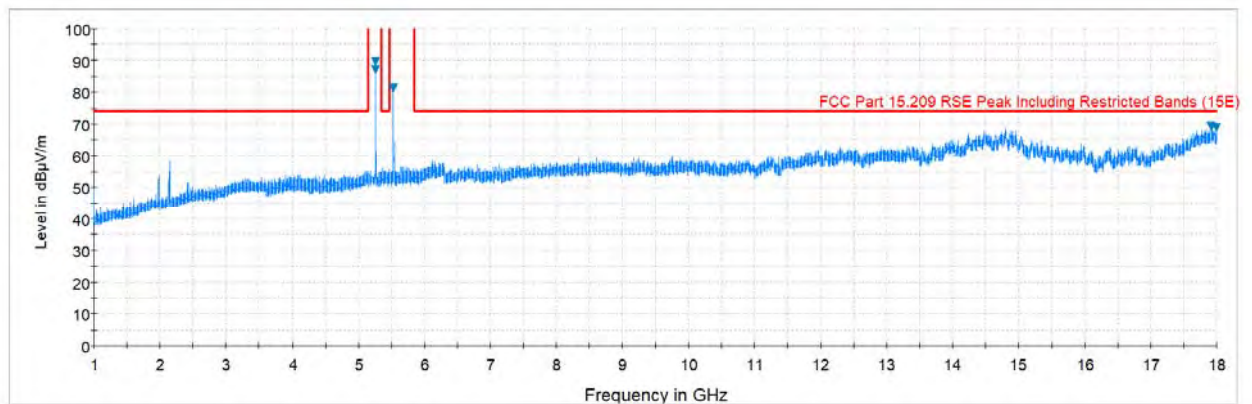
1. This device employs dual transmission in 802.11ac mode. For all test cases, the device was set to transmit two different 80MHz signal from all four antennas simultaneously. The data in this section demonstrates compliance to the dual-transmission requirements specified in KDB 662911 v02r01.
2. Since this device has beamforming capabilities, by the definition specified in KDB 662911 v02r01 Section F)1), the transmission symbols are correlated.
3. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit were fully investigated and the results are shown in this section. Rohde & Schwarz EMC32, Version 9.15.00 automated test software was used to perform the Radiated Spurious Emissions Pre-Scan testing.
4. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 225 of 227	

B.2 Radiated Spurious Emissions



Plot B-1. Radiated Spurious Plot above 1GHz (Ant. Pol. H)



Plot B-2. Radiated Spurious Plot above 1GHz (Ant. Pol. V)

FCC ID: A3LETWV530	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 226 of 227	

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	4330.00	Avg	H	-	-	-68.49	-0.08	38.43	53.98	-15.55
*	4330.00	Peak	H	-	-	-55.65	-0.08	51.27	73.98	-22.71
*	4570.00	Avg	H	-	-	-69.92	0.63	37.71	53.98	-16.27
*	4570.00	Peak	H	-	-	-60.48	0.63	47.15	73.98	-26.83
*	4810.00	Avg	H	-	-	-69.54	1.05	38.51	53.98	-15.47
*	4810.00	Peak	H	-	-	-58.80	1.05	49.25	73.98	-24.73
*	5050.00	Avg	H	-	-	-69.93	1.76	38.83	53.98	-15.15
*	5050.00	Peak	H	-	-	-60.96	1.76	47.80	73.98	-26.18
	5770.00	Peak	H	-	-	-57.72	3.66	52.94	68.20	-15.26
	6010.00	Peak	H	-	-	-61.98	7.96	52.98	68.20	-15.22
	6250.00	Peak	H	-	-	-59.13	9.28	57.15	68.20	-11.05
	6490.00	Peak	H	-	-	-61.07	10.15	56.08	68.20	-12.12

Table B-1. Radiated Measurements (Ant. Pol. H)

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	4330.00	Avg	V	-	-	-68.43	-0.08	38.49	53.98	-15.49
*	4330.00	Peak	V	-	-	-58.09	-0.08	48.83	73.98	-25.15
*	4570.00	Avg	V	-	-	-68.73	0.63	38.90	53.98	-15.08
*	4570.00	Peak	V	-	-	-58.13	0.63	49.50	73.98	-24.48
*	4810.00	Avg	V	-	-	-68.58	1.05	39.47	53.98	-14.51
*	4810.00	Peak	V	-	-	-59.68	1.05	48.37	73.98	-25.61
*	5050.00	Avg	V	-	-	-69.61	1.76	39.15	53.98	-14.83
*	5050.00	Peak	V	-	-	-59.35	1.76	49.41	73.98	-24.57
	5770.00	Peak	V	-	-	-60.56	3.66	50.10	68.20	-18.10
	6010.00	Peak	V	-	-	-59.19	7.96	55.77	68.20	-12.43
	6250.00	Peak	V	-	-	-60.83	9.28	55.45	68.20	-12.75
	6490.00	Peak	V	-	-	-58.38	10.15	58.77	68.20	-9.43

Table B-2. Radiated Measurements (Ant. Pol. V)

FCC ID: A3LETWV530		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1703270128-01-R1.A3L	Test Dates: 3/24 - 8/23/2017	EUT Type: Indoor Access Point	Page 227 of 227	